Journal of Chemical Education

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Index • Volume 77 • 2000

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Chang, E.; Earl, B. L.; Hoffman, M. Z. Program for the Division of Chemical Education: San Francisco, CA, March 26–30, 2000. March, 283–288.
Changyun, C.; Zhihua, Z.; Yiming, Z.; Jiangyan, D. Solid-State Synthesis of a Thermochromic Compound. September, 1206–1207.
Charlton, S. B.; Bengali, A. A. Displacement of the Benzene Solvent Molecule from $Cr(CO)_5$(benzene) by Piperidine: A Laser Flash Photolysis Experiment. (ACL) October, 1348–1351.
Chattopadhyay, A. Time-Dependent Changes in a Shampoo Bubble. October, 1339–1342.
Cheng, H.; Lin, H.; Lawrenz, F. The Assessment of Students and Teachers' Understanding of Gas Laws. (CER) February, 235–238.
Chesnik, M. A.; Olson, J. A.; Nordell, K. J.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Chimeno, J. How to Make Learning Chemical Nomenclature Fun, Exciting, and Palatable. (2YC$_3$) February, 144–145.
Chisholm, M. G.; Koch, P. E. An Introductory Polymer Chemistry Course for Plastics Technology Students. (CBB) September, 1147–1151.
Chisholm, M. S. Artificial Glass—The Versatility of Poly(methyl methacrylate) from Its Early Exploitation to the New Millennium. (POC) July, 841–845.
Chitra, H.; Denny, R. A.; Lakshmi, R.; Devi, N. Elementary "Who Am I" Riddles. April, 477–478.
Christmas, B. K.; Baker, D. B. A Thermodynamic Analysis to Explain the Boiling-Point Isotope Effect for Molecular Hydrogen. June, 732–734.
Ciszewski, J. T.; Carlson, M. W.; Bhatti, M. M.; Swanson, W. F.; Wilson, A. M. A Simple Secondary Amine Synthesis: Reductive Amination Using Sodium Triacetoxyborohydride. February, 270–271.
Clareen, S. S.; Marshall, S. R.; Price, K. E.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. The Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. July, 904.
Clark, R. W.; Bonicamp, J. M. Solubility and Solubility Products (re *J. Chem. Educ.* **1998**, *75*, 1179–1181 and *J. Chem. Educ.* **1998**, *75*, 1182–1185). (LTE) December, 1558.
Clark, S. M.; McClain, B. L.; Gabriel, R. L.; Ben-Amotz, D. Educational Applications of IR and Raman Spectroscopy: A Comparison of Experiment and Theory. May, 654–660.
Clarkson, S.; Mills, P. A.; Sweeney, W. V.; DeMeo, S.; Marino, R. Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. September, 1158–1161.
Clarkson, S.; Mills, P. A.; Sweeney, W. V.; Marino, R. A New Approach to Teaching Introductory Science: The Gas Module. September, 1161–1165.
Clemes, T. P.; Wade, E. A.; Singmaster, K. A. Photochemistry of Chloropicrin. A Physical Chemistry Project. July, 898–900.
Cochran, J. C.; Neidig, M. L. CUR, NCUR, and a Student Perspective on a National Research Conference. (CUR) February, 146–148.
Coetzee, J. F. Introduction to the 10th Annual James L. Waters Symposium at Pittcon: Atomic Emission Spectroscopy. (Waters) May, 573.
Cohen, B. H.; Cohen, P. S. Exploring San Francisco. March, 293–296.
Cohen, B. H.; Cohen, P. S. Exploring Washington, DC. August, 961–964.
Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.

Cohen, P. S.; Cohen, B. H. Exploring San Francisco. March, 293–296.
Cohen, P. S.; Cohen, B. H. Exploring Washington, DC. August, 961–964.
Cole, R. Chemistry, Teaching, and WebCT. July, 826–827.
Collazo, C. Personal Experiences at a Two-Year College. (2YC$_2$) October, 1272.
Condren, S. M.; Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Conner, J. N.; Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Cook, A. G.; Kreeger, P. K. Reaction of Morpholine with *t*-Butyl Acetoacetate: A Study in Kinetic vs Thermodynamic Control, Product Identification, and Molecular Modeling. January, 90–92.
Coon, S. R.; Bumpus, J. A.; Kim, J. J. Introducing Light-Scattering Technology into the Undergraduate Curriculum. (NSF) November, 1396–1400.
Coppola, B. P.; Kovac, J. D.; Pagni, R.; Harris, H. H. Summer Reading. June, 693–696.
Coppola, B. P. Targeting Entry Points for Ethics in Chemistry Teaching and Learning. November, 1506–1511.
Cortón, E.; Kocmur, S.; Haim, L.; Galagovsky, L. Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) September, 1188–1190.
Costas-Costas, U.; Pazo-LLorente, R.; González-Romero, E.; Bravo-Díaz, C. Dediazoniations in Water: An Integrated Physical Organic Chemistry Experiment. March, 384–386.
Cotterill, A. S.; John, D. N.; Teh, Y. S. Consumer Views on Chemical Additives: Are They Natural or Synthetic? A Non-Laboratory-Based Project. October, 1307–1308.
Cox, J. A.; Laughlin, J. B.; Sarquis, J. L.; Jones, V. M. Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. January, 77–79.
Cox, J. R. Teaching Noncovalent Interactions in the Biochemistry Curriculum through Molecular Visualization: The Search for π Interactions. (CIB) November, 1424–1428.
Cox, K.; Lee, M.; Azbell, J.; Carnahan, M.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Crespo, O.; Gimeno, M. C.; Laguna, A. Preparation of *nido*-Carborane Derivatives: Variation of the $^{31}P\{^1H\}$ NMR Pattern by Changing the Coordinating Ligand. A Microscale Laboratory. (ML) January, 86–88.
Crippen, K. J.; Brooks, D. W.; Abuloum, A. A Web Site Supporting the AP Descriptive Chemistry Question. August, 1087–1088.
Crosby, G. A. Statement on Educational Issues. September, 1108.
Crundwell, G.; Pevac, S. Pólya's Isomer Enumeration Method: A Unique Exercise in Group Theory and Combinatorial Analysis for Undergraduates. October, 1358–1360.
Crute, T. D. Classroom Nomenclature Games—BINGO. April, 481–482.
Čupić, Ž.; Schmitz, G.; Kolar-Anić, L.; Anić, S. The Illustration of Multistability. November, 1502–1505.
Curtright, R. D.; Emry, R.; Wright, J.; Markwell, J. Candies to Dye for: Cooperative, Open-Ended Student Activities to Promote Understanding of Electrophoretic Fractionation. October, 1323–1324.

D

Dabrowiak, J. C.; Hatala, P. J.; McPike, M. A Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) March, 397–400.
Dahn, H. Understanding Chemical Shifts in π Systems: ^{13}C, ^{15}N, ^{17}O NMR. July, 905–909.
Darvey, I. G. An Unexpected Event When Chymotrypsin Performs Its Physiological Role. March, 422.
Davies, T. K.; Headrick, K. L.; Haegele, A. N. A Simple Laboratory-Constructed Automatic Titrator. March, 389–390.
de Grys, H.; Wakeley, D. M. Developing an Intuitive Approach to Moles. (SSC) August, 1007–1009.
de Jesus, J. D.; Cavaleiro, A. M. Acid–Base Titration of (*S*)-Aspartic Acid: A Circular Dichroism Spectrophotometry Experiment. September, 1218–1220.
de Levie, R. Spreadsheet Calculation of the Propagation of Experimental Imprecision. (CBB) April, 534–535.
de Levie, R. Stochastics, the Basis of Chemical Dynamics. June, 771–774.
de Levie, R. What's in a Name? May, 610–612.
Dea, P. K. CUR 2000: The Many Facets of Undergraduate Research. (CUR) April, 432.
DeClue, M. E.; Johnson, K.; Hendrickson, H.; Keck, P. J. Stimulate High School Science Fair Participation by Connecting with a Nearby College. (SSC) May, 608–609.
Deese, W. C.; Ramsey, L. L.; Walczyk, J.; Eddy, D. Using Demonstration Assessments to Improve Learning. (CER) November, 1511–1516.
DeGraff, B. A.; Lasher, D. P.; Augustine, B. H. Understanding the Origin of Luminescence in Porous Silicon. An Undergraduate Solid-State Chemistry Experiment. September, 1201–1203.
del Valle, M. A.; East, G. A. Easy-to-Make Ag/AgCl Reference Electrode. (CET) January, 97.
Delagrange, S.; Nepveu, F. Elucidation of Molecular Structure Using NMR Long-Range Coupling: Determination of the Single Isomer Formed in a Regiospecific Reaction. July, 895–897.
Delaware, D.; Gruenhagen, J. A.; Ma, Y. Quantitative Analysis of Non-UV-Absorbing Cations in Soil Samples by High-Performance Capillary Electrophoresis. An Experiment for Undergraduate Instrumental Analysis Laboratory. (TICI) December, 1613–1616.
Delinger, W. G.; Hickman, A. B.; Helburn, R. S. Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. February, 255–257.
DeLorenzo, R. Four Interesting Mysteries with Seemingly Conflicting Explanations. April, 475–476.
DeMeo, S.; Mills, P. A.; Sweeney, W. V.; Marino, R.; Clarkson, S. Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. September, 1158–1161.
Denny, R. A.; Lakshmi, R.; Chitra, H.; Devi, N. Elementary "Who Am I" Riddles. April, 477–478.
Denton, P. Analysis of First-Order Kinetics Using Microsoft Excel Solver. (CBB) November, 1524–1525.
DePierro, E.; Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; Garafalo, F. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.
Derr, B. J.; Derr, H. R.; Lewis, T. Gas Me Up, or, A Baking Powder Diver. (TD) February, 171–172.
Derr, H. R.; Lewis, T.; Derr, B. J. Gas Me Up, or, A Baking Powder Diver. (TD) February, 171–172.
Devenyi, J.; Harding, C. E.; Mitchell, C. W. Kinetic Isotope Effect in the Chromic Acid Oxidation of Secondary Alcohols. August, 1042–1044.
Devi, N.; Denny, R. A.; Lakshmi, R.; Chitra, H. Elementary "Who Am I" Riddles. April, 477–478.
Dhavale, D. D.; Mahamulkar, B. G.; Kelkar, S. L. Organic Chemistry in Capillaries. (ML) March, 387–388.
Diamant, C. T.; Girard, J. E. Instrumental Analysis Lecture and Laboratory: A Survey. (TICI) May, 646–648.
Diemente, D. A Drop in the Ocean. (AA) August, 1010.
Diemente, D. Boerhaave on Fire. January, 42–47.
Dietrich, B.; Varnek, A. A.; Wipff, G.; Lehn, J.; Boldyreva, E. V. Supramolecular Chemistry. Computer-Assisted Instruction in Undergraduate and Graduate Chemistry Courses. February, 222–226.
DiLella, D.; Volker, E. J.; Terneus, K.; Baldwin, C.; Volker, I. The Determination of Ergosterol in Environmental Samples: An Interdisciplinary Project Involving Techniques of Analytical and Organic Chemistry. December, 1621–1623.
Dillon, P.; Burke, A.; Martin, K.; Hanks, T. W. Catalytic Asymmetric Epoxidation Using a Fructose-Derived Catalyst. February, 271–272.
DiMarco, K.; Kastner, M. E.; Leary, P.; Grieves, J.; Braun, J. Point Group I, II, and III. (JCE Software) September, 1246–1247.
DiMarco, K.; Kastner, M. E.; Vasbinder, E.; Kowalczyk, D.; Jackson, S.; Giammalvo, J.; Braun, J. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Dionísio, M.; Sotomayor, J. A Surface Chemistry Experiment Using an Inexpensive Contact Angle Goniometer. (CET) January, 59–62.
Dixon, D. W.; Weiner, S. W.; Cerpovicz, P. F.; Harden, D. B.; Hobbs, D. S.; Gosnell, D. L. RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) March, 401–406.
Dodsworth, D. W.; LeFevre, J. W. Complete Analysis of a Biologically Active Tetrapeptide: A Project Utilizing Thin-Layer Chromatography and Tandem Quadrupole Mass Spectrometry. (ML) April, 503–504.
Doggett, G.; Casaubon, J. I. Variational Principle for a Particle in a Box. (ACL) September, 1221–1224.
Doña Rodríguez, J. M.; Herrera-Melián, J. A.; Pérez-Peña, J. Determination of the Real Surface Area of Pt Electrodes by Hydrogen Adsorption Using Cyclic Voltammetry. September, 1195–1197.
Donato, H. Graphing Calculator Strategies for Solving Chemical Equilibrium Problems (re *J. Chem. Educ.* **1999**, *76*, 632–634). (LTE) September, 1120–1121.
Dopke, N. C.; Treichel, P. M.; Vestling, M. M. Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. August, 1065–1069.
Dostál, J. Two Faces of Alkaloids. August, 993–998.
Douglas, M.; Mabury, S. A.; Mathers, D. T.; Ellis, D. A.; Lee, P.; Marsella, A. M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.
Dovidauskas, S.; Toma, H. E.; Araki, K. A Cyclic Voltammetry Experiment Illustrating Linkage Isomers, Redox Potentials, Equilibrium Constants, and Substitution Reactions in Coordination Chemistry. October, 1351–1353.
Dragojlovic, V. Using Overhead Projector to Simulate X-ray Diffraction Experiments (re *J. Chem. Educ.* **1999**, *76*, 1240–1241). (Correction) February, 160.
Dreyfuss, D. A Rolling Periodic Table. April, 434.
Drum, C.; Ashcraft, J. Chemist Doing Library Research—AD 2000. (FPI) January, 23–24.
Dungey, K. E. Kixium Monolayers: A Simple Alternative to the Bubble Raft Model for Close-Packed Spheres. (TD) May, 618–619.
Dunnivant, F. M.; Moore, A.; Alfano, M. J.; Brzenk, R.; Buckley, P. T.; Newman, M. E. Understanding the Greenhouse Effect: Is Global Warming Real? An Integrated Lab–Lecture Exercise for Non-science Majors. (TPCS) December, 1602–1603.
Durieu, V.; Martiat, G.; Vandergeten, M. C.; Pirsoul, F.; Toubeau, F.; Van Camp, A. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Duxbury, M. Liquid Chromatographic Determination of Amnesic Shellfish Poison in Mussels. October, 1319–1320.

E

Earl, B. L.; Chang, E.; Hoffman, M. Z. Program for the Division of Chemical Education: San Francisco, CA, March 26–30, 2000. March, 283–288.
East, G. A.; del Valle, M. A. Easy-to-Make Ag/AgCl Reference Electrode. (CET) January, 97.
Eddy, D.; Deese, W. C.; Ramsey, L. L.; Walczyk, J. Using Demonstration Assessments to Improve Learning. (CER) November, 1511–1516.
Eddy, R. M. Chemophobia in the College Classroom: Extent, Sources, and Student Characteristics. April, 514–517.
Edmiston, P. L.; Williams, T. R. An Analytical Laboratory Experiment in Error Analysis: Repeated Determination of Glucose Using Commercial Glucometers. March, 377–379.
Ege, S. N. Conference Overview. 16th Biennial Conference on Chemical Education, University of Michigan, July 30–August 3, 2000. June, 697–698.
Elgren, T. E. Undergraduate Research Summer Fellowships Undergo Change. (CUR) September, 1113.
Eliason, R.; Lee, E. J.; Wakefield, D.; Bergren, A. Improvement of Sugar–Chlorate Rocket Demonstration. (TD) December, 1581–1583.
Ellis, A. B.; Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Ellis, D. A.; Mabury, S. A.; Mathers, D. T.; Lee, P.; Marsella, A. M.; Douglas, M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.

Elsworth, J. E. Entertaining Chemistry—Two Colorful Reactions. (TD) April, 484–485.
Emry, R.; Cuttright, R. D.; Wright, J.; Markwell, J. Candies to Dye for: Cooperative, Open-Ended Student Activities to Promote Understanding of Electrophoretic Fractionation. October, 1323–1324.
Ercolani, G. Numerical Evaluation of Energy Levels and Wave Functions for Hindered Internal Rotation. November, 1495–1502.
Erné, B. H. Thermodynamics of Water Superheated in the Microwave Oven. (TD) October, 1309–1310.
Espinosa, J.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Estler, R. C. Calibration of Frequency Data Collection Systems Using Shortwave Radio Signals. (CBB) September, 1244–1245.
Euler, W. B.; Kirschenbaum, L. J.; Ruekberg, B. Determination of K_{sp}, ΔG°, ΔH°, and ΔS° for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. August, 1039–1040.
Evans, J. J. Turbidometric Analysis of Water and Wastewater Samples Using a Spectrofluorimeter. December, 1609–1611.
Expósito, E.; García-García, V.; Montiel, V.; González-García, J.; Iniesta, J.; Bonete, P.; Inglés, M. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
Expósito, E.; Nikolic, J.; Iniesta, J.; González-García, J.; Montiel, V. Theoretical Concepts and Applications of a Rotating Disk Electrode. September, 1191–1194.
Exstrom, C. L.; Mosher, M. D. A Novel High School Chemistry Camp as an Outreach Model for Regional Colleges and Universities. October, 1295–1297.

F

Fang, H.; Giancarlo, L. C.; Avila, L.; Fine, L. W.; Flynn, G. W. Molecular Photography in the Undergraduate Laboratory: Identification of Functional Groups Using Scanning Tunneling Microscopy. January, 66–71.
Favero, G.; Calascibetta, F.; Campanella, L.; Nicoletti, I. An Aquarium as a Means for the Interdisciplinary Teaching of Chemistry. (SSC) October, 1311–1313.
Feaster, R.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Fenk, C. J.; Grooms, S. Y.; Gerbig, D. G. A Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. March, 373–374.
Fields, A.; Towns, M. H.; Kreke, K. An Action Research Project: Student Perspectives on Small-Group Learning in Chemistry. (CER) January, 111–115.
Fienhold, J.; Sanger, M. J.; Phelps, A. J. Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. (CER) November, 1517–1520.
Fine, L. W.; Giancarlo, L. C.; Fang, H.; Avila, L.; Flynn, G. W. Molecular Photography in the Undergraduate Laboratory: Identification of Functional Groups Using Scanning Tunneling Microscopy. January, 66–71.
Fleming, S. A.; Hart, G. R.; Savage, P. B. Molecular Orbital Animations for Organic Chemistry. June, 790–793.
Fletcher, B.; Grabowski, J. J. Photoacoustic Calorimetry: An Undergraduate Physical-Organic Experiment. (TICI) May, 640–645.
Flurkey, B. An Inexpensive Gradient Maker for the Biochemistry Laboratory. (CET) August, 1041.
Flynn, G. W.; Giancarlo, L. C.; Fang, H.; Avila, L.; Fine, L. W. Molecular Photography in the Undergraduate Laboratory: Identification of Functional Groups Using Scanning Tunneling Microscopy. January, 66–71.
Freeman, F.; Tsegai, Z. M.; Kasner, M. L.; Hehre, W. J. A Comparison of the ab Initio Calculated and Experimental Conformational Energies of Alkylcyclohexanes. May, 661–667.

G

Gabriel, R. L.; McClain, B. L.; Clark, S. M.; Ben-Amotz, D. Educational Applications of IR and Raman Spectroscopy: A Comparison of Experiment and Theory. May, 654–660.
Galagovsky, L.; Cortón, E.; Kocmur, S.; Haim, L. Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) September, 1188–1190.
Gallardo, F.; Gálvez, S.; Medina, M. A.; Heredia, A.; Gómez-Moreno, C. A Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. March, 375–377.
Gálvez, S.; Gallardo, F.; Medina, M. A.; Heredia, A.; Gómez-Moreno, C. A Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. March, 375–377.
Ganong, B. R. Hand-Held Conductivity Meter and Probe for Small Volumes and Field Work. (CET) December, 1606–1608.
Gans, P. A Puzzle Concerning Solution Equilibria. (RSA) April, 489–490.
Garafalo, F.; Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.
García, A. A.; Ong, E. W.; Razdan, A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
García-García, V.; Montiel, V.; González-García, J.; Expósito, E.; Iniesta, J.; Bonete, P.; Inglés, M. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
García-Jareño, J. J.; Benito, D.; Sanmatías, A.; Vicente, F. Simulation of Impedance Spectra: A Computational and Electrochemical Exercise for University Students. (TICI) June, 738–739.
Gardea-Torresdey, J.; Rum, G.; Lee, W. Y. Applications of a U.S. EPA–Approved Method for Fluoride Determination in an Environmental Chemistry Laboratory: Fluoride Detection in Drinking Water. December, 1604–1606.
Gardner, W. P.; Girard, J. E. Analysis of Common Household Cleaner–Disinfectants by Capillary Electrophoresis. (TICI) October, 1335–1338.
Gavardinas, K.; Sgariglia, E. A.; Schopp, R.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 3. Rearrangement of *cis*- and *trans*-Stilbene Oxides with Boron Trifluoride Etherate. An Exercise in ^{1}H NMR Spectroscopy for Sophomore Organic Laboratories. January, 79–80.
Georgiou, C. A.; Vasilarou, A. G. Enzymatic Spectrophotometric Reaction Rate Determination of Glucose in Fruit Drinks and Carbonated Beverages. An Analytical Chemistry Laboratory Experiment for Food Science–Oriented Students. October, 1327–1329.
Gerbig, D. G.; Fenk, C. J.; Grooms, S. Y. A Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. March, 373–374.
Gerig, J. T.; Rehart, A. M. Proton NMR Studies of the Conformation of an Octapeptide. An NMR Exercise for Biophysical Chemistry. July, 892–894.
Gesser, H. D. A Demonstration of Surface Tension and Contact Angle. (TD) January, 58–59.
Gestwicki, J. E.; Kabza, K. G.; McGrath, J. L. Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. January, 63–65.
Gettys, N. S.; Holmes, J. L. Prospectus 2000. (JCE Software) January, 135–136.
Gettys, N. S. Presidential Plenary Sessions. Report on Three American Chemical Society Presidential Events. June, 684–687.
Gettys, N. S. Public Understanding of Chemistry, ACS National Meeting. June, 688–690.
Giammalvo, J.; Kastner, M. E.; Vasbinder, E.; Kowalcyzk, D.; Jackson, S.; Braun, J.; DiMarco, K. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Giancarlo, L. C.; Fang, H.; Avila, L.; Fine, L. W.; Flynn, G. W. Molecular Photography in the Undergraduate Laboratory: Identification of Functional Groups Using Scanning Tunneling Microscopy. January, 66–71.
Gil, V. M.; Paiva, J. C. The Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558). (LTE) December, 1560.
Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Mouriño, R. O.; Moura, G. C. Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. February, 181–183.
Gimeno, M. C.; Crespo, O.; Laguna, A. Preparation of *nido*-Carborane Derivatives: Variation of the $^{31}P\{^1H\}$ NMR Pattern by Changing the Coordinating Ligand. A Microscale Laboratory. (ML) January, 86–88.
Gindt, Y. M.; Bowen, R.; Hartung, R. A Simple Protein Purification and Folding Experiment for General Chemistry Laboratory. November, 1456–1457.
Gindt, Y. M.; Heller, B. A. A Biochemical Study of Noncovalent Forces in Proteins Using Phycocyanin from *Spirulina*. November, 1458–1459.
Girard, J. E.; Diamant, C. T. Instrumental Analysis Lecture and Laboratory: A Survey. (TICI) May, 646–648.
Girard, J. E.; Gardner, W. P. Analysis of Common Household Cleaner–Disinfectants by Capillary Electrophoresis. (TICI) October, 1335–1338.
Gislason, S. F.; Wink, D. J.; McNicholas, S. D.; Zusman, B. J.; Mebane, R. C. The MATCH Program: A Preparatory Chemistry and Intermediate Algebra Curriculum. (CCD) August, 999–1000.
Glaunsinger, W. S.; Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
Goicoechea, H. C.; Ribone, M. E.; Pagani, A. P.; Olivieri, A. C. Determination of the Active Principle in a Syrup by Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. October, 1330–1333.
Goldsmith, R. H. Illustrating the Properties of Magic Sand. (OPD) January, 41.
Gollapalli, N. R.; Jonnalagadda, S. B. Kinetics of Reduction of Toluidine Blue with Sulfite—Kinetic Salt Effect in Elucidation of Mechanism. April, 506–509.
Goltz, D. M.; Hall, T.; Grant, A. S.; Segstro, E. Teaching Sample Preparation in the Undergraduate Laboratory. November, 1486–1488.
Gómez-Moreno, C.; Gallardo, F.; Gálvez, S.; Medina, M. A.; Heredia, A. A Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. March, 375–377.
González-García, J.; García-García, V.; Montiel, V.; Expósito, E.; Iniesta, J.; Bonete, P.; Inglés, M. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
González-García, J.; Nikolic, J.; Expósito, E.; Iniesta, J.; Montiel, V. Theoretical Concepts and Applications of a Rotating Disk Electrode. September, 1191–1194.
González-Romero, E.; Costas-Costas, U.; Pazo-LLorente, R.; Bravo-Díaz, C. Dediazoniations in Water: An Integrated Physical Organic Chemistry Experiment. March, 384–386.
Goodman, E.; Ziaei-Moayyed, M.; Williams, P. Electrical Deflection of Polar Liquid Streams: A Misunderstood Demonstration. November, 1520–1524.
Gorga, F. R. A Problem-Solving Approach to Chromatography in the Biochemistry Lab. February, 264–265.
Gosnell, D. L.; Weiner, S. W.; Cerpovicz, P. F.; Dixon, D. W.; Harden, D. B.; Hobbs, D. S. RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) March, 401–406.
Gozdzik, G.; Penn, J. H.; Nedeff, V. M. Organic Chemistry and the Internet: A Web-Based Approach to Homework and Testing Using the WE_LEARN System. (TECH) February, 227–231.
Grabowski, J. J.; Fletcher, B. Photoacoustic Calorimetry: An Undergraduate Physical-Organic Experiment. (TICI) May, 640–645.
Graham, K. J.; Skoglund, K.; Schaller, C. P.; Muldoon, W. P.; Klassen, J. B. Molecular Modeling to Predict Regioselectivity of Hydration Reactions. March, 396–397.
Gramsch, S. A. A Closer Look at Phase Diagrams for the General Chemistry Course. June, 718–723.
Grant, A. S.; Goltz, D. M.; Hall, T.; Segstro, E. Teaching Sample Preparation in the Undergraduate Laboratory. November, 1486–1488.
Greenberg, F. H. Reaction of Dibenzoylethylene with Hydriodic Acid. (ML) April, 505.
Greenbowe, T. J.; Miller, G. J.; Heideman, S. A. Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. (ST) September, 1185–1187.
Greenfield, S. Invention of the Annular Inductively Coupled Plasma as a Spectroscopic Source. (Waters) May, 584–591.
Grguric, G. Modeling Chemical Processes in Seawater Aquaria to Illustrate Concepts in Undergraduate Chemistry. April, 495–498.

Grieves, J.; Kastner, M. E.; Leary, P.; DiMarco, K.; Braun, J. Point Group I, II, and III. (JCE Software) September, 1246–1247.
Griffin, J. J.; Boshco, B. C. Teflon Tape—The Leaky Buret Remedy. October, 1342.
Griffiths, T. R.; Volkovich, V. A. Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) February, 177.
Grima, P. M.; Montaña, Á. M. Effective, Safe, and Inexpensive Microscale Ultrasonic Setup for Teaching and Research Laboratories. (CET) June, 754–757.
Grooms, S. Y.; Fenk, C. J.; Gerbig, D. G. A Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. March, 373–374.
Gruenhagen, J. A.; Delaware, D.; Ma, Y. Quantitative Analysis of Non-UV-Absorbing Cations in Soil Samples by High-Performance Capillary Electrophoresis. An Experiment for Undergraduate Instrumental Analysis Laboratory. (TICI) December, 1613–1616.
Grushow, A. PTRJ. (JCE Software) November, 1527–1528.
Gustafson, M. J.; Jarrell, R. F.; Brech, F. A History of Thermo Jarrell Ash Corporation and Spectroscopist Richard F. Jarrell. (Waters) May, 592–598.

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Haaland, A.; Helgaker, T. U.; Ruud, K.; Shorokhov, D. J. Should Gaseous BF_3 and SiF_4 Be Described as Ionic Compounds? August, 1076–1080.
Hackman, B. M.; Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Haegele, A. N.; Headrick, K. L.; Davies, T. K. A Simple Laboratory-Constructed Automatic Titrator. March, 389–390.
Hagen, J. P. Cooperative Learning in Organic II. Increased Retention on a Commuter Campus. November, 1441–1444.
Haigh, J.; Lord, J. R. Simulation of the Physical Chemistry of Gas Chromatography. (JCE Software) November, 1528.
Haim, L.; Cortón, E.; Kocmur, S.; Galagovsky, L. Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) September, 1188–1190.
Halkides, C. J. Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. November, 1428–1432.
Hall, T.; Goltz, D. M.; Grant, A. S.; Segstro, E. Teaching Sample Preparation in the Undergraduate Laboratory. November, 1486–1488.
Hancock, R. D.; Tarbet, B. J. The Other Double Helix—The Fascinating Chemistry of Starch. August, 988–992.
Hanks, T. W.; Burke, A.; Dillon, P.; Martin, K. Catalytic Asymmetric Epoxidation Using a Fructose-Derived Catalyst. February, 271–272.
Hanson, D. M.; Wolfskill, T. Process Workshops—A New Model for Instruction. January, 120–130.
Hanson, T.; Shane, E. C.; Price-Everett, M. Fluorescence Measurement of Pyrene Wall Adsorption and Pyrene Association with Humic Acids. An Experiment for Physical Chemistry or Instrumental Methods. December, 1617–1618.
Haraldsson, Á. H.; Kvaran, Á.; Sigfusson, T. I. Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. October, 1345–1347.
Hardee, J. R.; Montgomery, T. M.; Jones, W. H. Chemistry and Flatulence: An Introductory Enzyme Experiment. April, 498–500.
Harden, D. B.; Weiner, S. W.; Cerpovicz, P. F.; Dixon, D. W.; Hobbs, D. S.; Gosnell, D. L. RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) March, 401–406.
Hardin, C. M.; MacFarland, D. K.; Lowe, M. J. A Phthalocyanine Synthesis Group Project for General Chemistry. November, 1484–1485.
Harding, C. E.; Mitchell, C. W.; Devenyi, J. Kinetic Isotope Effect in the Chromic Acid Oxidation of Secondary Alcohols. August, 1042–1044.
Harris, H. H.; Kovac, J. D.; Pagni, R.; Coppola, B. P. Summer Reading. June, 693–696.
Harrison, J. A.; Buckley, P. D. Simulating Dynamic Equilibria. A Class Experiment. (OPD) August, 1013–1014.
Hart, G. R.; Fleming, S. A.; Savage, P. B. Molecular Orbital Animations for Organic Chemistry. June, 790–793.
Hartman, J. R. An In-Class Experiment to Illustrate the Importance of Sampling Techniques and Statistical Analysis of Data to Quantitative Analysis Students. (TD) August, 1017–1018.
Hartung, R.; Bowen, R.; Gindt, Y. M. A Simple Protein Purification and Folding Experiment for General Chemistry Laboratory. November, 1456–1457.
Hass, M. A. Student-Directed Learning in the Organic Chemistry Laboratory. August, 1035–1038.
Hatala, P. J.; Dabrowiak, J. C.; McPike, M. A Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) March, 397–400.
Hatchett, D. W.; Li, G.; Polk, B. J.; Meazell, L. A. ISE Analysis of Hydrogen Sulfide in Cigarette Smoke. (TICI) August, 1049–1052.
Haudrechy, A. A Simple Method of Drawing Stereoisomers from Complicated Symmetrical Structures. July, 864–866.
Hawkes, S. J. Easy Derivation of $pH = (pK_{a_1} + pK_{a_2})/2$ Using Autoprotolysis of HA^-: Doubtful Value of the Supposedly More Rigorous Equation. September, 1183–1184.
Hawkes, S. J. Glass Doesn't Flow and Doesn't Crystallize and It Isn't a Liquid. July, 846–848.
Hawkes, S. J. Inflection at the Triple Point (re *J. Chem. Educ.* 1999, *76*, 226). (LTE) February, 160.
Hawkes, S. J. Standarding Iodine (re *J. Chem. Educ.* 1999, *76*, 1421–1422). (LTE) December, 1557–1558.
Hawkes, S. J. What Chemistry to Teach Engineers? March, 321–326.
Headrick, K. L.; Davies, T. K.; Haegele, A. N. A Simple Laboratory-Constructed Automatic Titrator. March, 389–390.
Hehre, W. J.; Freeman, F.; Tsegai, Z. M.; Kasner, M. L. A Comparison of the ab Initio Calculated and Experimental Conformational Energies of Alkylcyclohexanes. May, 661–667.
Heideman, S. A.; Miller, G. J.; Greenbowe, T. J. Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. (ST) September, 1185–1187.
Heinhorst, S.; Cannon, G. *Nature*: Cleaner Fuels for the Future. (ROJ) July, 810.
Helburn, R. S.; Hickman, A. B.; Delinger, W. G. Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. February, 255–257.
Helgaker, T. U.; Haaland, A.; Ruud, K.; Shorokhov, D. J. Should Gaseous BF_3 and SiF_4 Be Described as Ionic Compounds? August, 1076–1080.
Heller, B. A.; Gindt, Y. M. A Biochemical Study of Noncovalent Forces in Proteins Using Phycocyanin from *Spirulina*. November, 1458–1459.
Helser, T. L. Lipid Wordsearch. April, 479.
Helser, T. L. Sugar Wordsearch. April, 480.
Henderson, G. Moving Particles and Wave Packet Propagation: A Computer Animated Supplement. (JCE Online) January, 134.
Henderson, G.; Tennis, R.; Bailey, R. Vibrational Spectra and Heat Capacity of Methane, and the Speed of Sound. December, 1634–1636.
Hendrickson, H.; DeClue, M. E.; Johnson, K.; Keck, P. J. Stimulate High School Science Fair Participation by Connecting with a Nearby College. (SSC) May, 608–609.
Heredia, A.; Gallardo, F.; Gálvez, S.; Medina, M. A.; Gómez-Moreno, C. A Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. March, 375–377.
Herman, H. B.; Jezorek, J. R.; Tang, Z. Analysis of Diet Tonic Water Using Capillary Electrophoresis. An Undergraduate Instrumental Analysis Experiment. June, 743–744.
Herman, Z. S. Ionic Crystals: A Simple and Safe Lecture Demonstration of the Preparation of NaI from Its Elements. (TD) May, 619–621.
Hermann, H. L.; Sanford, E. M. Bromination, Elimination, and Polymerization: A 3-Step Sequence for the Preparation of Polystyrene from Ethylbenzene. October, 1343–1344.
Herrera-Melián, J. A.; Doña Rodríguez, J. M.; Pérez-Peña, J. Determination of the Real Surface Area of Pt Electrodes by Hydrogen Adsorption Using Cyclic Voltammetry. September, 1195–1197.
Herrmann, W. A.; Böhm, V. P.; Reisinger, C. Introduction to Homogeneous Catalysis: Carbon–Carbon Bond Formation Catalyzed by a Defined Palladium Complex. January, 92–95.
Hersh, W. H.; Kane, S. Periplanar or Coplanar? October, 1366.
Hess, K. R.; Bender, J. D.; Catino, A. J.; Lassman, M. E.; Leber, P. A.; Reinard, M. D.; Strotman, N. A.; Pike, C. S. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Hessley, R. K. Computational Investigations for Undergraduate Organic Chemistry: Predicting the Mechanism of the Ritter Reaction. February, 202–203.
Hessley, R. K. Computational Investigations for Undergraduate Organic Chemistry: Modeling a TLC Exercise to Investigate Molecular Structure and Intermolecular Forces. February, 203–205.
Hessley, R. K. Computational Investigations for Undergraduate Organic Chemistry: Modeling Markovnikov and anti-Markovnikov Reactions for the Formation of Alkyl Halides and Alcohols. (TECH) June, 794–797.
Hickman, A. B.; Helburn, R. S.; Delinger, W. G. Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. February, 255–257.
Hieftje, G. M. Atomic Emission Spectroscopy—It Lasts and Lasts and Lasts. (Waters) May, 577–583.
Hillger, D. Let's Not Forget the Units! (re *J. Chem. Educ.* 1999, *76*, 313–314). (LTE) March, 310.
Hirsch, R.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Hites, R. A.; Willett, K. L. Chemical Actinometry: Using *o*-Nitrobenzaldehyde to Measure Lamp Intensity in Photochemical Experiments. July, 900–902.
Hjeresen, D. L.; Schutt, D. L.; Boese, J. M. Green Chemistry and Education. December, 1543–1547.
Hobbs, D. S.; Weiner, S. W.; Cerpovicz, P. F.; Dixon, D. W.; Harden, D. B.; Gosnell, D. L. RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) March, 401–406.
Hodgson, J. R.; Muiño, P. L. Illustrating Thermodynamic Concepts Using a Hero's Engine. (TD) May, 615–617.
Hodgson, S. C.; Casey, R. J.; Orbell, J. D.; Bigger, S. W. Use of a Dynamic Headspace GC–MS Method for the Study of Volatile Organic Compounds in Polyethylene Packaging. An Undergraduate Experiment in Polymer Analysis. December, 1631–1633.
Hodgson, S. C.; Orbell, J. D.; Bigger, S. W.; Scheirs, J. Studying Thermally Induced Chemical and Physical Transformations in Common Synthetic Polymers. A Laboratory Project. June, 745–747.
Hoffman, B.; Mitchell, E.; Roulhac, P.; Thomes, M.; Stumpo, V. M. Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) January, 95–96.
Hoffman, M. Z.; Bergo, C. H.; Rillema, D. P. Program for the Division of Chemical Education: Washington, DC, August 19–24, 2000. August, 947–960.
Hoffman, M. Z.; Chang, E.; Earl, B. L. Program for the Division of Chemical Education: San Francisco, CA, March 26–30, 2000. March, 283–288.
Holmes, J. L. Chemists, Access, Statistics. (JCE Online) June, 798.
Holmes, J. L.; Gettys, N. S. Prospectus 2000. (JCE Software) January, 135–136.
Holmes, J. L. Medium Frustration. (JCE Online) January, 134.
Holmes, J. L. Online Resources for High School Teachers—A CLIC Away. (JCE Online) April, 536.
Honeybourne, C. L. Organic Vapor Sensors for Food Quality Assessment. (POC) March, 338–344.
Hong, T.; Kim, M.; Ly, S. Comparisons and Demonstrations of Scientific Calculators. (CBB) October, 1367–1370.
Horng, M.; Quitevis, E. L. Visible Absorption Spectroscopy and Structure of Cyanine Dimers in Aqueous Solution. An Experiment for Physical Chemistry. May, 637–639.
Horowitz, G. Undergraduate Separations Utilizing Flash Chromatography. February, 263–264.
Horton, J. C.; Reid, K. L.; Wheatley, R. J.; Brydges, S. W. Using Computer Assisted Learning to Teach Molecular Reaction Dynamics. (TECH) March, 407–409.
Houghton, T. P.; Kalivas, J. H. Implementation of Traditional and Real-World Cooperative Learning Techniques in Quantitative Analysis Including Near Infrared Spectroscopy for Analysis of Live Fish. October, 1314–1318.

Houk, R. S. Inductively Coupled Plasma–Mass Spectrometry and the European Discovery of America. (Waters) May, 598–607.
Howard, E.; Cassidy, J. Analysis with Microelectrodes Using Microsoft Excel Solver. (CBB) March, 409–411.
Howard, K. P. Thermodynamics of DNA Duplex Formation. A Biophysical Chemistry Laboratory Experiment. November, 1469–1471.
Howe, J. J.; Whisnant, D. M.; Lever, L. S. Cl_2O_4 in the Stratosphere: A Collaborative Computational Physical Chemistry Project. (CBB) December, 1648–1649.
Howe, J. J.; Whisnant, D. M.; Lever, L. S. Collaborative Physical Chemistry Projects Involving Computational Chemistry. (CBB) February, 199–201.
Howell, J. E. Especially for High School Teachers. January, 9; February, 143; March, 281; April, 431; May, 545; June, 679; July, 807; August, 945; September, 1097; October, 1257; November, 1385; December, 1537.
Huang, J.; Mabury, S. A.; Sagebiel, J. C. Hot Chili Peppers: Extraction, Cleanup, and Measurement of Capsaicin. December, 1630–1631.
Huddle, P. A. A Poster Session in Organic Chemistry That Markedly Enhanced Student Learning. September, 1154–1157.
Huddle, P. A. How to Present a Paper or Poster. September, 1152–1153.
Huddle, P. A.; White, M. D.; Rogers, F. Simulations for Teaching Chemical Equilibrium. July, 920–926.
Huddle, P. A.; White, M. D.; Rogers, F. Using a Teaching Model to Correct Known Misconceptions in Electrochemistry. (CER) January, 104–110.
Hughes, E. A.; Zalts, A. Radioactivity in the Classroom. May, 613–614.
Hurley, M. D.; Andino, J. M.; Wallington, T. J.; Wayne, R. P. A Classroom Demonstration of the Formation of Aerosols from Biogenic Hydrocarbons. (TD) December, 1584–1586.
Hutchings, P. A.; Atwood, C. H.; Taylor, J. W. Why Are Chemists and Other Scientists Afraid of the Peer Review of Teaching? February, 239–243.
Hutchison, J. E.; Reed, S. M. Green Chemistry in the Organic Teaching Laboratory: An Environmentally Benign Synthesis of Adipic Acid. December, 1627–1629.

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Inglés, M.; García-García, V.; Montiel, V.; González-García, J.; Expósito, E.; Iniesta, J.; Bonete, P. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
Ingold, K. U.; Wright, J. S. Understanding Trends in C–H, N–H, and O–H Bond Dissociation Enthalpies. August, 1062–1064.
Iniesta, J.; García-García, V.; Montiel, V.; González-García, J.; Expósito, E.; Bonete, P.; Inglés, M. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
Iniesta, J.; Nikolic, J.; Expósito, E.; González-García, J.; Montiel, V. Theoretical Concepts and Applications of a Rotating Disk Electrode. September, 1191–1194.
Iyere, P. A. The Development of Innovative Laboratory Experiments with UV-Visible Spectrophotometer. (NSF) February, 153–154.
Jackson, P. T.; Walters, J. P. Role-Playing in Analytical Chemistry: The Alumni Speak. August, 1019–1025.
Jackson, S.; Kastner, M. E.; Vasbinder, E.; Kowalcyzk, D.; Giammalvo, J.; Braun, J.; DiMarco, K. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Jacobsen, E. K. National Chemistry Week 2000: *JCE* Resources in Food Chemistry. October, 1256–1267.
Jacobsen, J. J.; Bain, G. A.; Bruce, K.; Moore, J. W. Chemistry Comes Alive!, Volume 4: Abstract of Special Issue 25 on CD-ROM. (JCE Software) June, 799–800.
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Jain, N.; Krishnamurty, H. G.; Samby, K. Epoxide Chemistry: Guided Inquiry Experiment Emphasizing Structure Determination and Mechanism. April, 511–513.
Jameson, D. L.; Anand, R. Examination of Electron Transfer Self-Exchange Rates Using NMR Line-Broadening Techniques: An Advanced Physical Inorganic Laboratory Experiment. January, 88–89.
Jansen, M. P. The Cost of Converting a Gasoline-Powered Vehicle to Propane. A Practical Review Problem for Senior High School or Introductory Chemistry. (2AP) December, 1578–1579.
Jarrell, R. F. A Brief History of Atomic Emission Spectrochemical Analysis, 1666–1950. (Waters) May, 573–576.
Jarrell, R. F.; Brech, F.; Gustafson, M. J. A History of Thermo Jarrell Ash Corporation and Spectroscopist Richard F. Jarrell. (Waters) May, 592–598.
JCE Editorial Staff. Cabbage Patch Chemistry. (JCE Activity) November, 1432.
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JCE Editorial Staff. The Write Stuff: Using Paper Chromatography to Separate an Ink Mixture. (JCE Activity) February, 176.
Jensen, B. L.; Malkawi, A.; McGowan, V. Cyclization of the Monoterpene Citronellal to Isopulegol: A Biomimetic Natural Product Synthesis. November, 1474–1476.
Jensen, C. M.; Lee, D. W. Dry-Ice Bath Based on Ethylene Glycol Mixtures. (CET) May, 629.
Jensen, W. B. Reaction Feasibility and the Planck Function (re *J. Chem. Educ.* **1999,** *76,* 1448). (LTE) November, 1411.
Jensen, W. B. The Thermodynamics and Kinetics of "HeaterMeals". An Exercise in Undergraduate Inorganic Chemistry. June, 713–717.
Jezorek, J. R.; Herman, H. B.; Tang, Z. Analysis of Diet Tonic Water Using Capillary Electrophoresis. An Undergraduate Instrumental Analysis Experiment. June, 743–744.
Jiangyan, D.; Changyun, C.; Zhihua, Z.; Yiming, Z. Solid-State Synthesis of a Thermochromic Compound. September, 1206–1207.
John, D. N.; Cotterill, A. S.; Teh, Y. S. Consumer Views on Chemical Additives: Are They Natural or Synthetic? A Non-Laboratory-Based Project. October, 1307–1308.
Johnson, K. A Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) November, 1451–1452.
Johnson, K.; DeClue, M. E.; Hendrickson, H.; Keck, P. J. Stimulate High School Science Fair Participation by Connecting with a Nearby College. (SSC) May, 608–609.
Johnson, M. E. Rapid, Simple Quantitation in Thin-Layer Chromatography Using a Flatbed Scanner. March, 368–372.
Johnson, S.; Bendall, V. I. INQUAL-S. (JCE Software) July, 936.
Johnston, M. V.; White, H. B.; Panar, M. Senior Seminar Focusing on Societal Issues Related to Chemistry and Biochemistry. December, 1590–1593.
Jones, B. T.; Batchelor, J. D. Determination of the Scoville Heat Value for Hot Sauces and Chilies: An HPLC Experiment. February, 266–267.
Jones, B. T. Capsaicin Hazard (re *J. Chem. Educ.* **2000,** *77,* 266–267). (LTE) April, 444.
Jones, R. B. Life before and after Computers in General Chemistry Laboratory. August, 1085–1087.
Jones, V. M.; Laughlin, J. B.; Sarquis, J. L.; Cox, J. A. Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. January, 77–79.
Jones, W. H.; Hardee, J. R.; Montgomery, T. M. Chemistry and Flatulence: An Introductory Enzyme Experiment. April, 498–500.
Jonnalagadda, S. B.; Gollapalli, N. R. Kinetics of Reduction of Toluidine Blue with Sulfite—Kinetic Salt Effect in Elucidation of Mechanism. April, 506–509.
Jordaan, F.; Marais, P. Are We Taking Symbolic Language for Granted? October, 1355–1357.
Jordan, A. D. Liquid–Liquid Equilibrium: Verification of the Lever Rule. March, 395.
Jorgensen, G. M.; Wilson, R. L.; Mathers, D. T.; Mabury, S. A. ELISA and GC–MS as Teaching Tools in the Undergraduate Environmental Analytical Chemistry Laboratory. December, 1619–1620.
Judd, C. S. News from Online: Kitchen Chemistry. (ROJ) October, 1268–1270.
Judd, C. S. News from Online: Learning Communities. (ROJ) July, 808–809.
Judd, C. S. News from Online: The Power of the Voice. (ROJ) March, 299–300.
Junquera, E.; Aicart, E. An Easy and Fast Experiment for the Determination of the Equilibrium Constants of an Acid–Base Pair, Free and Complexed with a Molecular Receptor. September, 1215–1217.

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Kabza, K. G.; Gestwicki, J. E.; McGrath, J. L. Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. January, 63–65.
Kalberg, C.; Ogren, P. J. An Inexpensive Convenient Press for KBr and CsI Pellets in Infrared Studies. (CET) March, 391–392.
Kalivas, J. H.; Houghton, T. P. Implementation of Traditional and Real-World Cooperative Learning Techniques in Quantitative Analysis Including Near Infrared Spectroscopy for Analysis of Live Fish. October, 1314–1318.
Kameníček, J.; Melichárek, M. Experimental Demonstration of Isomorphism. May, 623–624.
Kane, S.; Hersh, W. H. Periplanar or Coplanar? October, 1366.
Karukstis, K. K. A Report on CUR 2000: The Many Facets of Undergraduate Research. (CUR) November, 1388–1389.
Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Kasner, M. L.; Freeman, F.; Tsegai, Z. M.; Hehre, W. J. A Comparison of the ab Initio Calculated and Experimental Conformational Energies of Alkylcyclohexanes. May, 661–667.
Kastner, M. E.; Leary, P.; Grieves, J.; DiMarco, K.; Braun, J. Point Group I, II, and III. (JCE Software) September, 1246–1247.
Kastner, M. E.; Vasbinder, E.; Kowalcyzk, D.; Jackson, S.; Giammalvo, J.; Braun, J.; DiMarco, K. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Kateley, L. J.; Martin, W. B. The Heck Reaction: A Microscale Synthesis Using a Palladium Catalyst. (ML) June, 757–759.
Kebbekus, B. B. A Chemical–Medical Mystery: Gold Jewelry and Black Marks on Skin. (AA) October, 1298–1299.
Keck, M. V. A Final Exam Review Activity Based on the Jeopardy Format. April, 483.
Keck, M. V. DNA Topology Analysis in the Undergraduate Biochemistry Laboratory. November, 1471–1473.
Keck, P. J.; DeClue, M. E.; Johnson, K.; Hendrickson, H. Stimulate High School Science Fair Participation by Connecting with a Nearby College. (SSC) May, 608–609.
Kelkar, S. L.; Mahamulkar, B. G.; Dhavale, D. D. Organic Chemistry in Capillaries. (ML) March, 387–388.
Kelter, P. B.; Mazlo, J. Graduate-Level Course for Successful Class Strategies: Preparing Graduate Students for the Next Step. September, 1175–1177.
Kennedy-Justice, M.; Cohen, J.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.
Kerr, W. J.; Murray, R. E.; Moore, B. D.; Nonhebel, D. C. An Integrated Communication Skills Package for Undergraduate Chemists. February, 191–194.
Keszei, E.; Takács, M. G.; Vizkeleti, B. A Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. July, 927–928.
Keys, S. Identification and Quantitation of Plasma Membrane Components: A Biochemical Experiment for Lipid Investigations. November, 1463–1465.
Khalil, M. I. Calculating Enthalpy of Reaction by a Matrix Method. February, 185–187.
Khan, N.; Schaeffer, R. W.; Chan, B. C.; Marshall, S. R.; Blasiole, B.; Yoder, K. L.; Trainer, M. E.; Yoder, C. H. Preparation and Analysis of Multiple Hydrates of Simple Salts. April, 509–510.
Kilner, C. Mission Statement for Chemical Principles Revisited. (CPR) June, 679.
Kim, J. J.; Bumpus, J. A.; Coon, S. R. Introducing Light-Scattering Technology into the Undergraduate Curriculum. (NSF) November, 1396–1400.

Kim, M.; Ly, S.; Hong, T. Comparisons and Demonstrations of Scientific Calculators. (CBB) October, 1367–1370.
Kingsbury, K.; Bailey, C.; Kulinowski, K.; Paradis, J.; Schoonover, R. An Integrated Lecture–Laboratory Environment for General Chemistry. February, 195–199.
Kirschenbaum, L. J.; Euler, W. B.; Ruekberg, B. Determination of K_{sp}, $\Delta G°$, $\Delta H°$, and $\Delta S°$ for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. August, 1039–1040.
Klassen, J. B.; Graham, K. J.; Skoglund, K.; Schaller, C. P.; Muldoon, W. P. Molecular Modeling to Predict Regioselectivity of Hydration Reactions. March, 396–397.
Koch, P. E.; Chisholm, M. G. An Introductory Polymer Chemistry Course for Plastics Technology Students. (CBB) September, 1147–1151.
Kocmur, S.; Cortón, E.; Haim, L.; Galagovsky, L. Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) September, 1188–1190.
Kolar-Anić, L.; Schmitz, G.; Anić, S.; Čupić, Ž. The Illustration of Multistability. November, 1502–1505.
Kolb, D.; Kolb, K. Glass–Sand + Imagination. July, 812–816.
Kolb, K.; Kolb, D. Glass–Sand + Imagination. July, 812–816.
Kondo, N. K.; Gimenez, S. M.; Yabe, M. J.; Mouriño, R. O.; Moura, G. C. Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. February, 181–183.
Kostecka, K. S. Atomic Absorption Spectroscopy of Calcium in Foodstuffs in Non-Science-Major Courses. October, 1321–1323.
Kovac, J. D.; Pagni, R.; Harris, H. H.; Coppola, B. P. Summer Reading. June, 693–696.
Kowalcyzk, D.; Kastner, M. E.; Vasbinder, E.; Jackson, S.; Giammalvo, J.; Braun, J.; DiMarco, K. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Kozliak, E. I. Chemical Education in Countries of the Former Soviet Union. (ECSA) July, 870–875.
Kreeger, P. K.; Cook, A. G. Reaction of Morpholine with *t*-Butyl Acetoacetate: A Study in Kinetic vs Thermodynamic Control, Product Identification, and Molecular Modeling. January, 90–92.
Kreke, K.; Towns, M. H.; Fields, A. An Action Research Project: Student Perspectives on Small-Group Learning in Chemistry. (CER) January, 111–115.
Krishnamurty, H. G.; Jain, N.; Samby, K. Epoxide Chemistry: Guided Inquiry Experiment Emphasizing Structure Determination and Mechanism. April, 511–513.
Kulinowski, K.; Bailey, C.; Kingsbury, K.; Paradis, J.; Schoonover, R. An Integrated Lecture–Laboratory Environment for General Chemistry. February, 195–199.
Kurzer, F. Fulminic Acid in the History of Organic Chemistry. July, 851–857.
Kvaran, Á.; Haraldsson, Á. H.; Sigfusson, T. I. Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. October, 1345–1347.
Kwochka, W. R.; Atterholt, C.; Butcher, D. J.; Bacon, J. R.; Woosley, R. S. Implementation of an Environmental Focus in an Undergraduate Chemistry Curriculum by the Addition of Gas Chromatography-Mass Spectrometry. (NSF) December, 1550–1551.

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Lagorio, M. G. Electron Densities: Pictorial Analogies for Apparent Ambiguities in Probability Calculations. November, 1444–1445.
Lagowski, J. J. Input Requested for a History of the Division of Chemical Education. March, 296.
Lagowski, J. J. Lessons for the 21st Century. 1999 James Flack Norris Award. (Award Address) July, 818–823.
Laguna, A.; Crespo, O.; Gimeno, M. C. Preparation of *nido*-Carborane Derivatives: Variation of the $^{31}P\{^1H\}$ NMR Pattern by Changing the Coordinating Ligand. A Microscale Laboratory. (ML) January, 86–88.
Lahti, P. M.; Motyka, E. J.; Lancashire, R. J. Interactive Visualization of Infrared Spectral Data: Synergy of Computation, Visualization, and Experiment for Learning Spectroscopy. (CBB) May, 649–653.
Lakshmi, R.; Denny, R. A.; Chitra, H.; Devi, N. Elementary "Who Am I" Riddles. April, 477–478.
Lam, A.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Lancashire, R. J.; Lahti, P. M.; Motyka, E. J. Interactive Visualization of Infrared Spectral Data: Synergy of Computation, Visualization, and Experiment for Learning Spectroscopy. (CBB) May, 649–653.
Landis, C. R.; Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Lasher, D. P.; DeGraff, B. A.; Augustine, B. H. Understanding the Origin of Luminescence in Porous Silicon. An Undergraduate Solid-State Chemistry Experiment. September, 1201–1203.
Lassman, M. E.; Bender, J. D.; Catino, A. J.; Hess, K. R.; Leber, P. A.; Reinard, M. D.; Strotman, N. A.; Pike, C. S. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Laughlin, J. B.; Sarquis, J. L.; Jones, V. M.; Cox, J. A. Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. January, 77–79.
Lavrich, R. J.; Tubergen, M. J.; McCargar, J. W. Infrared Spectrum and Group Theoretical Analysis of the Vibrational Modes of Carbonyl Sulfide. December, 1637–1639.
Lawrenz, F.; Lin, H.; Cheng, H. The Assessment of Students and Teachers' Understanding of Gas Laws. (CER) February, 235–238.
Leary, P.; Kastner, M. E.; Grieves, J.; DiMarco, K.; Braun, J. Point Group I, II, and III. (JCE Software) September, 1246–1247.
Leber, P. A.; Bender, J. D.; Catino, A. J.; Hess, K. R.; Lassman, M. E.; Reinard, M. D.; Strotman, N. A.; Pike, C. S. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Lee, D. W.; Jensen, C. M. Dry-Ice Bath Based on Ethylene Glycol Mixtures. (CET) May, 629.
Lee, E. J.; Eliason, R.; Wakefield, D.; Bergren, A. Improvement of Sugar–Chlorate Rocket Demonstration. (TD) December, 1581–1583.
Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Lee, P.; Mabury, S. A.; Mathers, D. T.; Ellis, D. A.; Marsella, A. M.; Douglas, M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.
Lee, W. Y.; Rum, G.; Gardea-Torresdey, J. Applications of a U.S. EPA–Approved Method for Fluoride Determination in an Environmental Chemistry Laboratory: Fluoride Detection in Drinking Water. December, 1604–1606.
Leenson, I. A. Approaching Equilibrium in the N_2O_4–NO_2 System: A Common Mistake in Textbooks. December, 1652–1655.
LeFevre, J. W.; Dodsworth, D. W. Complete Analysis of a Biologically Active Tetrapeptide: A Project Utilizing Thin-Layer Chromatography and Tandem Quadrupole Mass Spectrometry. (ML) April, 503–504.
LeFevre, J. W. Isolating *trans*-Anethole from Anise Seeds and Elucidating Its Structure: A Project Utilizing One- and Two-Dimensional NMR Spectrometry. March, 361–363.
LeFevre, J. W.; Silveira, A. Quantitative Determination of Methylcyclohexanone Mixtures Using ^{13}C NMR Spectroscopy. A Project for an Advanced Chemistry Laboratory. January, 83–85.
Lehn, J.; Varnek, A. A.; Dietrich, B.; Wipff, G.; Boldyreva, E. V. Supramolecular Chemistry. Computer-Assisted Instruction in Undergraduate and Graduate Chemistry Courses. February, 222–226.
Lennard, M. S.; Stachulski, A. V. Drug Metabolism: The Body's Defense against Chemical Attack. (POC) March, 349–353.
Lesk, A. M. A Picture Is Worth 1000 Words: The BLT in Teaching Crystal Structure. November, 1423.
Leung, S. H. Amino Acids, Aromatic Compounds, and Carboxylic Acids: How Did They Get Their Common Names? January, 48–49.
Lever, L. S.; Whisnant, D. M.; Howe, J. J. Cl_2O_4 in the Stratosphere: A Collaborative Computational Physical Chemistry Project. (CBB) December, 1648–1649.
Lever, L. S.; Whisnant, D. M.; Howe, J. J. Collaborative Physical Chemistry Projects Involving Computational Chemistry. (CBB) February, 199–201.
Lewis, T.; Derr, H. R.; Derr, B. J. Gas Me Up, or, A Baking Powder Diver. (TD) February, 171–172.
Li, G.; Polk, B. J.; Meazell, L. A.; Hatchett, D. W. ISE Analysis of Hydrogen Sulfide in Cigarette Smoke. (TICI) August, 1049–1052.
Li, W.; Mak, T. C. Probability of Locating the Electron in a Hydrogen Atom. (RSA) April, 490–491.
Liberko, C. A.; Shearer, J. Preparation of a Surface-Oriented Liquid Crystal. An Experiment for the Undergraduate Organic Chemistry Laboratory. September, 1204–1205.
Lichter, R. L. What Does It Mean to Be a Professor? (re *J. Chem. Educ.* **1999**, *76*, 1610–1611). (LTE) December, 1559.
Lieb, S. D.; MacFarland, D. K.; Oswald, J. L. Visible Aromatic Electronic Effects Using a Series of Substituted Copper Phthalocyanines. November, 1482–1483.
Lin, H.; Cheng, H.; Lawrenz, F. The Assessment of Students and Teachers' Understanding of Gas Laws. (CER) February, 235–238.
Lindsay, H. A.; McIntosh, M. C. Early Exposure of Undergraduates to the Chemistry Research Environment: A New Model for Research Universities. (CCD) September, 1174–1175.
Lindsay, J. M.; Karukstis, K. K.; Avrantinis S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Mandel, A. L.; Miller, E. J. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Liotta, L. J.; Nash, J. G.; Bravaco, R. J. Measuring Conceptual Change in Organic Chemistry. (CER) March, 333–337.
Lipkowitz, K. B.; Naylor, T.; Anliker, K. S. Introducing Chiroscience into the Organic Laboratory Curriculum. (NSF) March, 305–307.
Lipkowitz, K. B.; Robertson, D. Conformer Hunting: An Open-Ended Computational Chemistry Exercise That Expresses Real-World Complexity and Student Forethought. (CBB) February, 206–209.
Lisensky, G. C.; Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Lo, G. V. Spreadsheet Investigation of First-Order Kinetics. (CBB) April, 532–533.
LoBuglio, T.; Schubert, F. Epoxy Polymerization (re *J. Chem. Educ.* **1999**, *76*, 666–668). (LTE) November, 1409.
Lockie, N. M.; Van Lanen, R. J.; McGannon, T. Predictors of Nursing Students' Performance in a One-Semester Organic and Biochemistry Course. (CER) June, 767–770.
Long, S. *The Science Teacher*: Education on Safety. (ROJ) January, 21–22.
Long, S. *The Science Teacher*: Summer 2000 Reading. (ROJ) July, 825–826.
López-Garriga, J.; Camacho-Zapata, R. Integration of Pre-college Chemistry Education and the GLOBE (Global Learning and Observations to Benefit the Environment) Program. December, 1586–1589.
Lord, J. R.; Haigh, J. Simulation of the Physical Chemistry of Gas Chromatography. (JCE Software) November, 1528.
Lowe, J. P. Comments on Kinetic, Potential, and Ionization Energies. (Commentary) February, 155–156.
Lowe, M. J.; MacFarland, D. K.; Hardin, C. M. A Phthalocyanine Synthesis Group Project for General Chemistry. November, 1484–1485.
Luberoff, B. Design of Experiments (re *J. Chem. Educ.* **1999**, *76*, 1560–1561). (LTE) December, 1557.
Lucy, C. A. Analytical Chemistry: A Literary Approach. April, 459–470.
Ly, S.; Kim, M.; Hong, T. Comparisons and Demonstrations of Scientific Calculators. (CBB) October, 1367–1370.

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Ma, Y.; Gruenhagen, J. A.; Delaware, D. Quantitative Analysis of Non-UV-Absorbing Cations in Soil

Samples by High-Performance Capillary Electrophoresis. An Experiment for Undergraduate Instrumental Analysis Laboratory. (TICI) December, 1613–1616.
Mabury, S. A.; Huang, J.; Sagebiel, J. C. Hot Chili Peppers: Extraction, Cleanup, and Measurement of Capsaicin. December, 1630–1631.
Mabury, S. A.; Mathers, D. T.; Ellis, D. A.; Lee, P.; Marsella, A. M.; Douglas, M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.
Mabury, S. A.; Wilson, R. I.; Mathers, D. T.; Jorgensen, G. M. ELISA and GC–MS as Teaching Tools in the Undergraduate Environmental Analytical Chemistry Laboratory. December, 1619–1620.
MacDonald, P. J.; Wagner, B. D.; Wagner, M. A Visual Demonstration of Supramolecular Chemistry: Observable Fluorescence Enhancement upon Guest–Host Inclusion. (TD) February, 178–181.
MacFarland, D. K.; Hardin, C. M.; Lowe, M. J. A Phthalocyanine Synthesis Group Project for General Chemistry. November, 1484–1485.
MacFarland, D. K.; Lieb, S. D.; Oswald, J. L. Visible Aromatic Electronic Effects Using a Series of Substituted Copper Phthalocyanines. November, 1482–1483.
Macherone, A. J.; Siek, T. J. Identification of Pharmaceuticals via Computer-Aided Thin Layer Chromatography. March, 366–367.
MacLachlan, M. J.; Scott, R. W.; Ozin, G. A.; McIntosh, D. F. Self-Assembly of Microporous Thiogermanate Frameworks. May, 630–632.
Macudzinski, R. M.; Pelter, M. W.; Passarelli, M. E. A Microscale Oxidation Puzzle. (ML) November, 1481.
Mahamulkar, B. G.; Dhavale, D. D.; Kelkar, S. L. Organic Chemistry in Capillaries. (ML) March, 387–388.
Mak, T. C.; Li, W. Probability of Locating the Electron in a Hydrogen Atom. (RSA) April, 490–491.
Malkawi, A.; Jensen, B. L.; McGowan, V. Cyclization of the Monoterpene Citronellal to Isopulegol: A Biomimetic Natural Product Synthesis. November, 1474–1476.
Mandal, D. K. The R/S System: A New and Simple Approach to Determining Ligand Priority and a Unified Method for the Assignment and Correlation of Stereogenic Center Configuration in Diverse Stereoformulas. July, 866–869.
Mandel, A. L.; Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Miller, E. J. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Marais, P.; Jordaan, F. Are We Taking Symbolic Language for Granted? October, 1355–1357.
Marcaccini, S.; Bossio, R.; Pepino, R.; Marcos, C. F. Multicomponent Reactions. A Convenient Undergraduate Organic Chemistry Experiment. March, 382–384.
March, J. L.; Moore, J. W.; Jacobsen, J. J. ChemPages Laboratory. (JCE Software) March, 423–424.
Marcos, C. F.; Bossio, R.; Marcaccini, S.; Pepino, R. Multicomponent Reactions. A Convenient Undergraduate Organic Chemistry Experiment. March, 382–384.
Mardan, A.; Ajaz, R. A Vivid Demonstration of Dependence of Overvoltage on the Physical State of a Metal Deposited on the Electrode. (TD) December, 1580–1581.
Marino, R.; Mills, P. A.; Sweeney, W. V.; Clarkson, S. A New Approach to Teaching Introductory Science: The Gas Module. September, 1161–1165.
Marino, R.; Mills, P. A.; Sweeney, W. V.; DeMeo, S.; Clarkson, S. Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. September, 1158–1161.
Markwell, J.; Emry, R.; Curtright, R. D.; Wright, J. Candies to Dye for: Cooperative, Open-Ended Student Activities to Promote Understanding of Electrophoretic Fractionation. October, 1323–1324.
Marsella, A. M.; Mabury, S. A.; Mathers, D. T.; Ellis, D. A.; Lee, P.; Douglas, M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.
Marshall, J. L. A Living Periodic Table. August, 979–983.
Marshall, J. L. More about A Living Periodic Table (re *J. Chem. Educ.* **2000,** *77,* cover). (LTE) September, 1119.
Marshall, S. R.; Clareen, S. S.; Price, K. E.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. The Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. July, 904.
Marshall, S. R.; Schaeffer, R. W.; Chan, B. C.; Blasiole, B.; Khan, N.; Yoder, K. L.; Trainer, M. E.; Yoder, C. H. Preparation and Analysis of Multiple Hydrates of Simple Salts. April, 509–510.
Martiat, G.; Durieu, V.; Vandergeten, M. C.; Pirsoul, F.; Toubeau, F.; Van Camp, A. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Martin, J. S.; Blackburn, E. V. Lessons for Introductory Chemistry. (JCE Software) July, 935–936.
Martin, K.; Burke, A.; Dillon, P.; Hanks, T. W. Catalytic Asymmetric Epoxidation Using a Fructose-Derived Catalyst. February, 271–272.
Martin, R. B. Solubility and Solubility Products (re *J. Chem. Educ.* **1998,** *75,* 1179–1181 and *J. Chem. Educ.* **1998,** *75,* 1182–1185). (LTE) December, 1558.
Martin, W. B.; Kateley, L. J. The Heck Reaction: A Microscale Synthesis Using a Palladium Catalyst. (ML) June, 757–759.
Maslowsky, E. Microscale Synthesis of Hexaamminechromium(III) Nitrate Using Liquid Ammonia Generated in the Laboratory. (ML) June, 760–761.
Mathers, D. T.; Mabury, S. A.; Ellis, D. A.; Lee, P.; Marsella, A. M.; Douglas, M. An Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. December, 1611–1612.
Mathers, D. T.; Wilson, R. I.; Jorgensen, G. M.; Mabury, S. A. ELISA and GC–MS as Teaching Tools in the Undergraduate Environmental Analytical Chemistry Laboratory. December, 1619–1620.
Mattson, B. Cubic Unit Cell Construction Kit. (CET) May, 622–623.
Mays, H. Luminescence Quenching in Microemulsion Studies. January, 72–76.
Mazlo, J.; Kelter, P. B. Graduate-Level Course for Successful Class Strategies: Preparing Graduate Students for the Next Step. September, 1175–1177.
McCargar, J. W.; Tubergen, M. J.; Lavrich, R. J. Infrared Spectrum and Group Theoretical Analysis of the Vibrational Modes of Carbonyl Sulfide. December, 1637–1639.
McClain, B. L.; Clark, S. M.; Gabriel, R. L.; Ben-Amotz, D. Educational Applications of IR and Raman Spectroscopy: A Comparison of Experiment and Theory. May, 654–660.
McDonald, C. E. The Oxidation of Primary Alcohols to Esters: Three Related Investigative Experiments. June, 750–751.
McDowell, S. A. A Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999,** *76,* 1393–1394). (LTE) December, 1559.
McDowell, S. A. The Distribution Constant of Iodine between Aqueous and Organic Phases. September, 1213–1214.
McGannon, T.; Van Lanen, R. J.; Lockie, N. M. Predictors of Nursing Students' Performance in a One-Semester Organic and Biochemistry Course. (CER) June, 767–770.
McGowan, C. B.; Singh, M. M.; Szafran, Z.; Pike, R. M. A Comparative Study of Microscale and Standard Burets. (ML) May, 625–626.
McGowan, V.; Jensen, B. L.; Malkawi, A. Cyclization of the Monoterpene Citronellal to Isopulegol: A Biomimetic Natural Product Synthesis. November, 1474–1476.
McGrath, J. L.; Kabza, K. G.; Gestwicki, J. E. Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. January, 63–65.
McIntosh, D. F.; MacLachlan, M. J.; Scott, R. W.; Ozin, G. A. Self-Assembly of Microporous Thiogermanate Frameworks. May, 630–632.
McIntosh, M. C.; Lindsay, H. A. Early Exposure of Undergraduates to the Chemistry Research Environment: A New Model for Research Universities. (CCD) September, 1174–1175.
McKinney, M. A.; Nakamoto, K. Application of the Correlation Method to Vibrational Spectra of C_{60} and Other Fulleretes: Predicting the Number of IR- and Raman-Active Bands. June, 775–780.
McNicholas, S. D.; Wink, D. J.; Gislason, S. F.; Zusman, B. J.; Mebane, R. C. The MATCH Program: A Preparatory Chemistry and Intermediate Algebra Curriculum. (CCD) August, 999–1000.
McPike, M.; Dabrowiak, J. C.; Hatala, P. J. A Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) March, 397–400.
Meazell, L. A.; Li, G.; Polk, B. J.; Hatchett, D. W. ISE Analysis of Hydrogen Sulfide in Cigarette Smoke. (TICI) August, 1049–1052.
Mebane, R. C.; Wink, D. J.; Gislason, S. F.; McNicholas, S. D.; Zusman, B. J. The MATCH Program: A Preparatory Chemistry and Intermediate Algebra Curriculum. (CCD) August, 999–1000.
Medina, M. A.; Gallardo, F.; Gálvez, S.; Heredia, A.; Gómez-Moreno, C. A Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. March, 375–377.
Melichárek, M.; Kameníček, J. Experimental Demonstration of Isomorphism. May, 623–624.
Messina, M. A Heuristic Derivation of the Linear Harmonic Oscillator Energy Levels. April, 492–494.
Metanomski, W. V. From Past Issues: Contests Revisited (re *J. Chem. Educ.* **1999,** *76,* 1476). (LTE) March, 310.
Middlecamp, C. H.; Nickel, A. L. Doing Science and Asking Questions: An Interactive Exercise. January, 50–52.
Miller, E. J.; Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L. Spectroscopic Determination of Ternary Phase Diagrams. (NSF) June, 701–703.
Miller, G. J.; Heideman, S. A.; Greenbowe, T. J. Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. (ST) September, 1185–1187.
Miller, J. B. The M&M® Superposition Principle. (TD) July, 879–881.
Mills, P. A.; Sweeney, W. V.; DeMeo, S.; Marino, R.; Clarkson, S. Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. September, 1158–1161.
Mills, P. A.; Sweeney, W. V.; Marino, R.; Clarkson, S. A New Approach to Teaching Introductory Science: The Gas Module. September, 1161–1165.
Mirafzal, G. A.; Summer, J. M. Microwave Irradiation Reactions: Synthesis of Analgesic Drugs. March, 356–357.
Mitchell, C. W.; Harding, C. E.; Devenyi, J. Kinetic Isotope Effect in the Chromic Acid Oxidation of Secondary Alcohols. August, 1042–1044.
Mitchell, E.; Hoffman, B.; Roulhac, P.; Thomes, M.; Stumpo, V. M. Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) January, 95–96.
Mitchell, L.; Antony, E.; Nettenstrom, L. When A + B ≠ B + A. (TD) September, 1180–1181.
Mitchell, M. S.; Anderson, A. M.; Mohan, R. S. Isolation of Curcumin from Turmeric. March, 359–360.
Mohan, R. S.; Anderson, A. M.; Mitchell, M. S. Isolation of Curcumin from Turmeric. March, 359–360.
Mohan, R. S.; Sgariglia, E. A.; Schopp, R.; Gavardinas, K. The Discovery-Oriented Approach to Organic Chemistry. 3. Rearrangement of *cis*- and *trans*-Stilbene Oxides with Boron Trifluoride Etherate. An Exercise in ^{1}H NMR Spectroscopy for Sophomore Organic Laboratories. January, 79–80.
Montaña, Á. M.; Grima, P. M. Effective, Safe, and Inexpensive Microscale Ultrasonic Setup for Teaching and Research Laboratories. (CET) June, 754–757.
Montgomery, T. M.; Hardee, J. R.; Jones, W. H. Chemistry and Flatulence: An Introductory Enzyme Experiment. April, 498–500.
Montiel, V.; García-García, V.; González-García, J.; Expósito, E.; Iniesta, J.; Bonete, P.; Inglés, M. The Application of Electrodialysis to Desalting an Amino Acid Solution. November, 1477–1479.
Montiel, V.; Nikolic, J.; Expósito, E.; Iniesta, J.; González-García, J. Theoretical Concepts and Applications of a Rotating Disk Electrode. September, 1191–1194.
Moore, A.; Dunnivant, F. M.; Alfano, M. J.; Brzenk, R.; Buckley, P. T.; Newman, M. E. Understanding the Greenhouse Effect: Is Global Warming Real? An Integrated Lab–Lecture Exercise for Non-science Majors. (TPCS) December, 1602–1603.
Moore, B. D.; Kerr, W. J.; Murray, R. E.; Nonhebel, D. C. An Integrated Communication Skills Package for Undergraduate Chemists. February, 191–194.
Moore, B. G. Orbital Plots Using Gnuplot. (CBB) June, 785–789.
Moore, J. W. Before It's Too Late. (Editorial) December, 1535.
Moore, J. W. Climate Change—Scientific and Political. (Editorial) August, 943.
Moore, J. W. Education: Commodity, Come-On, or Commitment? (Editorial) July, 805.

Moore, J. W. Endowment and Education. (Editorial) May, 543.
Moore, J. W. Enthusiastic Teachers, Vivid Experiments. (Editorial) April, 429.
Moore, J. W. Exploring Invisible Frontiers. (Editorial) September, 1095.
Moore, J. W. Maintaining Intellectual Infrastructure. (Editorial) March, 279.
Moore, J. W. Ownership of Information. (Editorial) February, 141.
Moore, J. W. Scholarship in the Chemical Sciences and Engineering. (Editorial) November, 1383.
Moore, J. W. The End of Education As We Know It? (Editorial) October, 1255.
Moore, J. W. To Stretch and Search for Better Ways. (Editorial) June, 677.
Moore, J. W. What Next? (Editorial) January, 7.
Moore, J. W.; Jacobsen, J. J. Chemistry Comes Alive!, Volumes 1 and 2. (JCE Software) May, 671–672.
Moore, J. W.; Jacobsen, J. J.; Bain, G. A.; Bruce, K. Chemistry Comes Alive!, Volume 4: Abstract of Special Issue 25 on CD-ROM. (JCE Software) June, 799–800.
Moore, J. W.; March, J. L.; Jacobsen, J. J. ChemPages Laboratory. (JCE Software) March, 423–424.
Morgan, M. E.; Amend, J. R.; Whitla, A. Inexpensive Digital Monitoring of Signals from a Spectronic-20 Spectrophotometer. (CET) February, 252–253.
Moriguchi, Y. Trisethylenediaminecobalt(III) Chloride Sulfate as a Subject Material for Widely Different Chemistry Lab Courses. August, 1045–1047.
Mosher, M. D.; Exstrom, C. L. A Novel High School Chemistry Camp as an Outreach Model for Regional Colleges and Universities. October, 1295–1297.
Motyka, E. J.; Lahti, P. M.; Lancashire, R. J. Interactive Visualization of Infrared Spectral Data: Synergy of Computation, Visualization, and Experiment for Learning Spectroscopy. (CBB) May, 649–653.
Moura, G. C.; Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Mouriño, R. O. Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. February, 181–183.
Mouriño, R. O.; Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Moura, G. C. Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. February, 181–183.
Muiño, P. L.; Hodgson, J. R. Illustrating Thermodynamic Concepts Using a Hero's Engine. (TD) May, 615–617.
Muiño, P. L. Introducing the Uncertainty Principle Using Diffraction of Light Waves. August, 1025–1027.
Mulder, J. J. Closed-Form Spherical Harmonics: Explicit Polynomial Expression for the Associated Legendre Functions. February, 244.
Muldoon, W. P.; Graham, K. J.; Skoglund, K.; Schaller, C. P.; Klassen, J. B. Molecular Modeling to Predict Regioselectivity of Hydration Reactions. March, 396–397.
Murray, R. E.; Kerr, W. J.; Moore, B. D.; Nonhebel, D. C. An Integrated Communication Skills Package for Undergraduate Chemists. February, 191–194.
Myers, R. T. Inflection at the Triple Point (re *J. Chem. Educ.* 1999, *76*, 226). (LTE) February, 160.

N

Najdoski, M.; Petruševski, V. M. A Novel Experiment for Fast and Simple Determination of the Oxygen Content in the Air. (TD) November, 1447–1448.
Nakamoto, K.; McKinney, M. A. Application of the Correlation Method to Vibrational Spectra of C_{60} and Other Fullerenes: Predicting the Number of IR- and Raman-Active Bands. June, 775–780.
Nash, J. G.; Liotta, L. J.; Bravaco, R. J. Measuring Conceptual Change in Organic Chemistry. (CER) March, 333–337.
Naylor, S.; Bergen, H. R.; Benson, L. M. Determination of Aspartame and Caffeine in Carbonated Beverages Utilizing Electrospray Ionization–Mass Spectrometry. (TICI) October, 1325–1326.
Naylor, T.; Lipkowitz, K. B.; Anliker, K. S. Introducing Chiroscience into the Organic Laboratory Curriculum. (NSF) March, 305–307.
Nedeff, V. M.; Penn, J. H.; Gozdzik, G. Organic Chemistry and the Internet: A Web-Based Approach to Homework and Testing Using the WE_LEARN System. (TECH) February, 227–231.
Neidig, M. L.; Cochran, J. C. CUR, NCUR, and a Student Perspective on a National Research Conference. (CUR) February, 146–148.
Nelson, P. G. Quantifying Molecular Character. February, 245–248.
Nepveu, F.; Delagrange, S. Elucidation of Molecular Structure Using NMR Long-Range Coupling: Determination of the Single Isomer Formed in a Regiospecific Reaction. July, 895–897.
Nervi, S. J.; Perrine, D. M.; Ross, J. T.; Zimmerman, R. H. A Short, One-Pot Synthesis of Bupropion (Zyban®, Wellbutrin®). November, 1479–1480.
Nettenstrom, L.; Antony, E.; Mitchell, L. When A + B ≠ B + A. (TD) September, 1180–1181.
Newman, M. E.; Dunnivant, F. M.; Moore, A.; Alfano, M. J.; Brzenk, R.; Buckley, P. T. Understanding the Greenhouse Effect: Is Global Warming Real? An Integrated Lab–Lecture Exercise for Non-science Majors. (TPCS) December, 1602–1603.
Nickel, A. L.; Middlecamp, C. H. Doing Science and Asking Questions: An Interactive Exercise. January, 50–52.
Nicoletti, L.; Calascibetta, F.; Campanella, L.; Favero, G. An Aquarium as a Means for the Interdisciplinary Teaching of Chemistry. (SSC) October, 1311–1313.
Nielsen, O. F.; Nissum, M.; Shabanova, E. The Second-Order ^{13}C Diamond Raman Spectrum: An Introduction to Vibrational Spectroscopy of the Solid State. May, 633–637.
Nikolic, J.; Expósito, E.; Iniesta, J.; González-García, J.; Montiel, V. Theoretical Concepts and Applications of a Rotating Disk Electrode. September, 1191–1194.
Nishimura, A. M.; Rosbrugh, I. M.; Nishimura, S. Y. Evaporation Kinetics in Short-Chain Alcohols by Optical Interference. August, 1047–1049.
Nishimura, S. Y.; Rosbrugh, I. M.; Nishimura, A. M. Evaporation Kinetics in Short-Chain Alcohols by Optical Interference. August, 1047–1049.
Nissum, M.; Shabanova, E.; Nielsen, O. F. The Second-Order ^{13}C Diamond Raman Spectrum: An Introduction to Vibrational Spectroscopy of the Solid State. May, 633–637.
Nonhebel, D. C.; Kerr, W. J.; Murray, R. E.; Moore, B. D. An Integrated Communication Skills Package for Undergraduate Chemists. February, 191–194.
Noori, S.; Taagepera, M. Mapping Students' Thinking Patterns in Learning Organic Chemistry by the Use of Knowledge Space Theory. (CER) September, 1224–1229.
Nordell, K. J.; Olson, J. A.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.

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O'Klatner, B. L.; Rabinovich, D. Metallurgy in the Laboratory: Preparation of Pure Antimony. February, 251–252.
Ochs, R. S. Understanding Enzyme Inhibition. November, 1453–1456.
Ogren, P. J.; Kalberg, C. An Inexpensive Convenient Press for KBr and CsI Pellets in Infrared Studies. (CET) March, 391–392.
Oliveira, C. C.; Sartini, R. P.; Zagatto, E. A. Flow Injection as a Teaching Tool for Gravimetric Analysis. (TICI) June, 735–737.
Olivieri, A. C.; Ribone, M. E.; Pagani, A. P.; Goicoechea, H. C. Determination of the Active Principle in a Syrup by Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. October, 1330–1333.
Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.
Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
Orbell, J. D.; Hodgson, S. C.; Bigger, S. W.; Scheirs, J. Studying Thermally Induced Chemical and Physical Transformations in Common Synthetic Polymers. A Laboratory Project. June, 745–747.
Orbell, J. D.; Hodgson, S. C.; Casey, R. J.; Bigger, S. W. Use of a Dynamic Headspace GC–MS Method for the Study of Volatile Organic Compounds in Polyethylene Packaging. An Undergraduate Experiment in Polymer Analysis. December, 1631–1633.
Oriakhi, C. O. Polymer Nanocomposition Approach to Advanced Materials. (POC) September, 1138–1146.
Oswald, J. L.; MacFarland, D. K.; Lieb, S. D. Visible Aromatic Electronic Effects Using a Series of Substituted Copper Phthalocyanines. November, 1482–1483.
Ozin, G. A.; MacLachlan, M. J.; Scott, R. W.; McIntosh, D. F. Self-Assembly of Microporous Thiogermanate Frameworks. May, 630–632.

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Pacer, R. A. How Can an Instructor Best Introduce the Topic of Significant Figures to Students Unfamiliar with the Concept? November, 1435–1438.
Pagani, A. P.; Ribone, M. E.; Olivieri, A. C.; Goicoechea, H. C. Determination of the Active Principle in a Syrup by Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. October, 1330–1333.
Pagni, R.; Kovac, J. D.; Harris, H. H.; Coppola, B. P. Summer Reading. June, 693–696.
Pai, S.; Cohen, J.; Kennedy-Justice, M.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.
Paiva, J. C.; Gil, V. M. The Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* 1999, *76*, 554–558). (LTE) December, 1560.
Panar, M.; White, H. B.; Johnston, M. V. Senior Seminar Focusing on Societal Issues Related to Chemistry and Biochemistry. December, 1590–1593.
Paolini, M.; Cercignani, G.; Bauer, C. Correctly Expressing Atomic Weights. November, 1438–1439.
Paradis, J.; Bailey, C.; Kingsbury, K.; Kulinowski, K.; Schoonover, R. An Integrated Lecture–Laboratory Environment for General Chemistry. February, 195–199.
Parcher, J. F. A Chromatographic Parable. (AA) February, 176.
Parrill, A. L. Everyday Chemical Reactions: A Writing Assignment to Promote Synthesis of Concepts and Relevance in Chemistry. October, 1303–1305.
Passarelli, M. E.; Pelter, M. W.; Macudzinski, R. M. A Microscale Oxidation Puzzle. (ML) November, 1481.
Patterson, M. J. Developing an Internet-Based Chemistry Class. ($2YC_4$) May, 554–555.
Pavlinic, S.; Wright, A. H.; Buckley, P. D. Students Using Chemistry Courseware—Insights from a Qualitative Study. (TECH) February, 231–234.
Pazo-LLorente, R.; Costas-Costas, U.; González-Romero, E.; Bravo-Díaz, C. Dediazoniations in Water: An Integrated Physical Organic Chemistry Experiment. March, 384–386.
Pearce, E. M. Statement on Education—Moving Forward Together. September, 1109.
Pelter, M. W.; Macudzinski, R. M.; Passarelli, M. E. A Microscale Oxidation Puzzle. (ML) November, 1481.
Penn, J. H.; Nedeff, V. M.; Gozdzik, G. Organic Chemistry and the Internet: A Web-Based Approach to Homework and Testing Using the WE_LEARN System. (TECH) February, 227–231.
Pepino, R.; Bossio, R.; Marcaccini, S.; Marcos, C. F. Multicomponent Reactions. A Convenient Undergraduate Organic Chemistry Experiment. March, 382–384.
Perez, A. L.; Perez, G. V. Organic Acids without a Carboxylic Acid Functional Group. July, 910–915.
Perez, G. V.; Perez, A. L. Organic Acids without a Carboxylic Acid Functional Group. July, 910–915.
Pérez-Peña, J.; Doña Rodríguez, J. M.; Herrera-Melián, J. A. Determination of the Real Surface Area of Pt Electrodes by Hydrogen Adsorption Using Cyclic Voltammetry. September, 1195–1197.
Perrine, D. M.; Ross, J. T.; Nervi, S. J.; Zimmerman, R. H. A Short, One-Pot Synthesis of Bupropion (Zyban®, Wellbutrin®). November, 1479–1480.
Petruševski, V. M.; Najdoski, M. A Novel Experiment for Fast and Simple Determination of the Oxygen Content in the Air. (TD) November, 1447–1448.
Pevac, S.; Crundwell, G. Pólya's Isomer Enumeration Method: A Unique Exercise in Group Theory and Combinatorial Analysis for Undergraduates. October, 1358–1360.
Phelps, A. J.; Sanger, M. J.; Fienhold, J. Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. (CER) November, 1517–1520.
Phillips, C.; Wakefield, C. B. Virial Coefficients Using Different Equations of State. (CBB) October, 1371–1374.
Pike, C. S.; Bender, J. D.; Catino, A. J.; Hess, K. R.; Lassman, M. E.; Leber, P. A.; Reinard, M. D.; Strotman, N. A. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination

of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Pike, R. M.; Singh, M. M.; McGowan, C. B.; Szafran, Z. A Comparative Study of Microscale and Standard Burets. (ML) May, 625–626.
Pine, S. H. Fire, Water, and Soot—A Cautionary Tale. (Commentary) May, 547–551.
Pirjola, L. Local Atmospheric Chemistry and Ozone Model (LACOM). (CBB) December, 1650–1652.
Pirsoul, F.; Durieu, V.; Martiat, G.; Vandergeten, M. C.; Toubeau, F.; Van Camp, A. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Pizziconi, V. B.; Ong, E. W.; Razdan, A.; Garcia, A. A.; Ramakrishna, B. L.; Glaunsinger, W. S. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
Pohl, N. L. Developing New Antibiotics with Combinatorial Biosynthesis. (POC) November, 1421–1423.
Poklar, N.; Vesnaver, G. Thermal Denaturation of Proteins Studied by UV Spectroscopy. March, 380–382.
Poler, J. C. Surface Oxidation Kinetics: A Scanning Tunneling Microscopy Experiment. September, 1198–1200.
Polik, W. F.; Schwenz, R. W.; Young, S. Analysis of Vibrational Spectrum of a Linear Molecule. (MCAD) May, 670.
Polk, B. J.; Li, G.; Meazell, L. A.; Hatchett, D. W. ISE Analysis of Hydrogen Sulfide in Cigarette Smoke. (TICI) August, 1049–1052.
Price, K. E.; Clareen, S. S.; Marshall, S. R.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. The Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. July, 904.
Price-Everett, M.; Shane, E. C.; Hanson, T. Fluorescence Measurement of Pyrene Wall Adsorption and Pyrene Association with Humic Acids. An Experiment for Physical Chemistry or Instrumental Methods. December, 1617–1618.

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Quattrin, F. E.; Rigatuso, R.; Bertoluzzo, S. M.; Bertoluzzo, M. G. Ant Activity Associated with a Chemical Compound. February, 183–185.
Quitevis, E. L.; Horng, M. Visible Absorption Spectroscopy and Structure of Cyanine Dimers in Aqueous Solution. An Experiment for Physical Chemistry. May, 637–639.

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Rabinovich, D.; O'Klatner, B. L. Metallurgy in the Laboratory: Preparation of Pure Antimony. February, 251–252.
Ramakrishna, B. L.; Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Glaunsinger, W. S. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
Ramasami, P. Students as Solids, Liquids, and Gases. (AA) April, 485.
Ramsey, L. L.; Deese, W. C.; Walczyk, J.; Eddy, D. Using Demonstration Assessments to Improve Learning. (CER) November, 1511–1516.
Rayner-Canham, G. Periodic Patterns. August, 1053–1056.
Razdan, A.; Ong, E. W.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. Interactive Nano-Visualization of Materials over the Internet. (NSF) September, 1114–1115.
Reber, C.; Triest, M.; Bussière, G.; Bélisle, H. Why Does the Middle Band in the Absorption Spectrum of $Ni(H_2O)_6^{2+}$ Have Two Maxima? (JCE Online) May, 670.
Reed, S. M.; Hutchison, J. E. Green Chemistry in the Organic Teaching Laboratory: An Environmentally Benign Synthesis of Adipic Acid. December, 1627–1629.
Reed, S. S.; Barton, J. S.; Tang, C. Dipeptide Sequence Determination: Analyzing Phenylthiohydantoin Amino Acids by HPLC. February, 268–269.
Rehart, A. M.; Gerig, J. T. Proton NMR Studies of the Conformation of an Octapeptide. An NMR Exercise for Biophysical Chemistry. July, 892–894.
Reid, K. L.; Wheatley, R. J.; Horton, J. C.; Brydges, S. W. Using Computer Assisted Learning to Teach Molecular Reaction Dynamics. (TECH) March, 407–409.
Reinard, M. D.; Bender, J. D.; Catino, A. J.; Hess, K. R.; Lassman, M. E.; Lebet, P. A.; Strotman, N. A.; Pike, C. S. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Reis, B. F.; Rocha, F. R. A Low-Cost Device for Automatic Photometric Titrations. February, 258–261.
Reisinger, C.; Herrmann, W. A.; Böhm, V. P. Introduction to Homogeneous Catalysis: Carbon–Carbon Bond Formation Catalyzed by a Defined Palladium Complex. January, 92–95.
Ribone, M. E.; Pagani, A. P.; Olivieri, A. C.; Goicoechea, H. C. Determination of the Active Principle in a Syrup by Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. October, 1330–1333.
Rickey, D.; Stacy, A. M. The Role of Metacognition in Learning Chemistry. July, 915–920.
Rigatuso, R.; Bertoluzzo, S. M.; Quattrin, F. E.; Bertoluzzo, M. G. Ant Activity Associated with a Chemical Compound. February, 183–185.
Rillema, D. P.; Bergo, C. H.; Hoffman, M. Z. Program for the Division of Chemical Education: Washington, DC, August 19–24, 2000. August, 947–960.
Rioux, F. A Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999**, *76*, 1393–1394). (LTE) December, 1559.
Roberts, A. M.; Burley, J. D. Gas-Phase Kinetics of $O_3 + C_2H_2$ and $O_3 + H_2C{=}CCl_2$. September, 1210–1212.
Roberts, S. M. Using Microorganisms in Synthetic Organic Chemistry. (POC) March, 344–348.
Robertson, D.; Lipkowitz, K. B. Conformer Hunting: An Open-Ended Computational Chemistry Exercise That Expresses Real-World Complexity and Student Forethought. (CBB) February, 206–209.
Robinson, W. R. A View of the Science Education Research Literature: Scientific Discovery Learning with Computer Simulations. (ROJ) January, 17–18.
Robinson, W. R. Hidden Insights in the Science Education Research Literature. (ROJ) May, 556–557.
Robinson, W. R. Learning about Atoms, Molecules, and Chemical Bonds: A Case Study of Multiple-Model Use. (ROJ) September, 1110–1111.
Rocha, F. R.; Reis, B. F. A Low-Cost Device for Automatic Photometric Titrations. February, 258–261.
Rodgers, S. Blackboard Overview by a Technology Coordinator. (2YC$_y$) June, 700.
Rodino, L.; Williams, B. D.; Williams, B. Synthesis of the Sweetener Dulcin from the Analgesic Acetominophen. March, 357–359.
Roediger, A. Let's Talk about It! Using a Graded Discussion Procedure to Make Chemistry Real. (VIEW) October, 1305–1306.
Rogers, F.; Huddle, P. A.; White, M. D. Simulations for Teaching Chemical Equilibrium. July, 920–926.
Rogers, F.; Huddle, P. A.; White, M. D. Using a Teaching Model to Correct Known Misconceptions in Electrochemistry. (CER) January, 104–110.
Rohrig, B. Fizzy Drinks: Stoichiometry You Can Taste. (JCE Activity) December, 1608.
Roller, S.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Steadman, B.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Rosbrugh, I. M.; Nishimura, S. Y.; Nishimura, A. M. Evaporation Kinetics in Short-Chain Alcohols by Optical Interference. August, 1047–1049.
Rosenfeld, L. Discovery and Early Uses of Iodine. August, 984–987.
Ross, J. T.; Perrine, D. M.; Nervi, S. J.; Zimmerman, R. H. A Short, One-Pot Synthesis of Bupropion (Zyban®, Wellbutrin®). November, 1479–1480.
Ross, M. R. A Classroom Exercise in Sampling Technique. (TD) August, 1015–1016.
Roulhac, P.; Hoffman, B.; Mitchell, E.; Thomes, M.; Stumpo, V. M. Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) January, 95–96.
Royall, M. B.; Clareen, S. S.; Marshall, S. R.; Price, K. E.; Yoder, C. H.; Schaeffer, R. W. The Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. July, 904.
Ruekberg, B.; Euler, W. B.; Kirschenbaum, L. J. Determination of K_{sp}, ΔG°, ΔH°, and ΔS° for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. August, 1039–1040.
Rum, G.; Lee, W. Y.; Gardea-Torresdey, J. Applications of a U.S. EPA–Approved Method for Fluoride Determination in an Environmental Chemistry Laboratory: Fluoride Detection in Drinking Water. December, 1604–1606.
Rupe, S. B.; Campbell, D. J. Solvent Swelling and Optical Rotation Demonstrated on the Overhead Projector. (OPD) July, 876–878.
Ruud, K.; Haaland, A.; Helgaker, T. U.; Shorokhov, D. J. Should Gaseous BF_3 and SiF_4 Be Described as Ionic Compounds? August, 1076–1080.
Rybolt, T. R.; Waddell, T. G. The Chemical Adventures of Sherlock Holmes: The Ghost of Gordon Square. April, 471–474.
Rzchowski, M. S.; Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Condren, S. M.; Lisensky, G. C. Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) July, 882–889.

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Sacks, L. J. Coulombic Models in Chemical Bonding (re *J. Chem. Educ.* **1998**, *75*, 923–925 and *J. Chem. Educ.* **1998**, *75*, 907–909). (LTE) April, 445.
Sagebiel, J. C.; Huang, J.; Mabury, S. A. Hot Chili Peppers: Extraction, Cleanup, and Measurement of Capsaicin. December, 1630–1631.
Salter, C. A Simple Approach to Heat Engine Efficiency. August, 1027–1030.
Salter, C. Error Analysis Using the Variance–Covariance Matrix. (CBB) September, 1239–1243.
Samby, K.; Krishnamurty, H. G.; Jain, N. Epoxide Chemistry: Guided Inquiry Experiment Emphasizing Structure Determination and Mechanism. April, 511–513.
Sandler, S. R.; Cannon, K. C. A Successful Model for an Academic–Industrial Partnership for Elementary Science Education. (CFK) October, 1291–1294.
Sanford, E. M.; Hermann, H. L. Bromination, Elimination, and Polymerization: A 3-Step Sequence for the Preparation of Polystyrene from Ethylbenzene. October, 1343–1344.
Sanger, M. J.; Phelps, A. J.; Fienhold, J. Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. (CER) November, 1517–1520.
Sanger, M. J. Using Particulate Drawings to Determine and Improve Students' Conceptions of Pure Substances and Mixtures. (CER) June, 762–766.
Sanmatías, A.; García-Jareño, J. J.; Benito, D.; Vicente, F. Simulation of Impedance Spectra: A Computational and Electrochemical Exercise for University Students. (TICI) June, 738–739.
Sarquis, A. M.; Storer, D. A. Measuring Soil Phosphates Using Ion-Exchange Resins. A Final Project for Freshman Chemistry. June, 748–749.
Sarquis, J. L.; Laughlin, J. B.; Jones, V. M.; Cox, J. A. Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. January, 77–79.
Sarquis, J. L. Secretary's Report, April 2000. (ACS) June, 680–682.
Sartini, R. P.; Zagatto, E. A.; Oliveira, C. C. Flow Injection as a Teaching Tool for Gravimetric Analysis. (TICI) June, 735–737.
Sattar, S. Thermodynamics of Mixing Real Gases. October, 1361–1365.
Sauers, R. R. Cyclohexane: Boat Form Revisited. March, 332.
Savage, P. B.; Fleming, S. A.; Hart, G. R. Molecular Orbital Animations for Organic Chemistry. June, 790–793.
Scerri, E. R. Have Orbitals Really Been Observed? November, 1492–1494.
Scerri, E. R. Philosophy of Chemistry—A New Interdisciplinary Field? (IC) April, 522–525.
Schaeffer, R. W.; Chan, B. C.; Marshall, S. R.; Blasiole, B.; Khan, N.; Yoder, K. L.; Trainer, M. E.; Yoder, C. H. Preparation and Analysis of Multiple Hydrates of Simple Salts. April, 509–510.
Schaeffer, R. W.; Clareen, S. S.; Marshall, S. R.; Price, K. E.; Royall, M. B.; Yoder, C. H. The Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. July, 904.
Schallet, C. P.; Graham, K. J.; Skoglund, K.; Muldoon, W. P.; Klassen, J. B. Molecular Modeling to Predict Regioselectivity of Hydration Reactions. March, 396–397.

Schatz, P. F. Anniversaries: 2000. January, 11–14.
Scheirs, J.; Hodgson, S. C.; Orbell, J. D.; Bigger, S. W. Studying Thermally Induced Chemical and Physical Transformations in Common Synthetic Polymers. A Laboratory Project. June, 745–747.
Schildcrout, S. M. Gaseous-Ion Fragmentation Mechanisms in Chlorobenzenes by GC/MS and GC/MS/MS: A Physical-Chemical Approach for Undergraduates. April, 501–502.
Schildcrout, S. M. No, the Molecular Mass of Bromobenzene Is Not 157 amu: An Exercise in Mass Spectrometry and Isotopes for Early General Chemistry. November, 1433–1434.
Schmitz, G.; Kolar-Anić, L.; Anić, S.; Čupić, Ž The Illustration of Multistability. November, 1502–1505.
Schock, M. R.; Urbansky, E. T. Understanding, Deriving, and Computing Buffer Capacity. December, 1640–1644.
Schoonover, R.; Bailey, C.; Kingsbury, K.; Kulinowski, K.; Paradis, J. An Integrated Lecture–Laboratory Environment for General Chemistry. February, 195–199.
Schopp, R.; Sgariglia, E. A.; Gavardinas, K.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 3. Rearrangement of *cis*- and *trans*-Stilbene Oxides with Boron Trifluoride Etherate. An Exercise in ^{1}H NMR Spectroscopy for Sophomore Organic Laboratories. January, 79–80.
Schubert, F.; LoBuglio, T. Epoxy Polymerization (re *J. Chem. Educ.* **1999**, *76*, 666–668). (LTE) November, 1409.
Schultz, E. A Chemistry Course with a Laboratory for Non-Science Majors. August, 1001–1006.
Schutt, D. L.; Hjeresen, D. L.; Boese, J. M. Green Chemistry and Education. December, 1543–1547.
Schwenz, R. W.; Polik, W. F.; Young, S. Analysis of Vibrational Spectrum of a Linear Molecule. (MCAD) May, 670.
Scott, R. W.; MacLachlan, M. J.; Ozin, G. A.; McIntosh, D. F. Self-Assembly of Microporous Thiogermanate Frameworks. May, 630–632.
Segstro, E.; Goltz, D. M.; Hall, T.; Grant, A. S. Teaching Sample Preparation in the Undergraduate Laboratory. November, 1486–1488.
Senkbeil, E. G. Combustion Demonstration Using Updated Flame Tornado. (TD) November, 1449–1450.
Sgariglia, E. A.; Schopp, R.; Gavardinas, K.; Mohan, R. S. The Discovery-Oriented Approach to Organic Chemistry. 3. Rearrangement of *cis*- and *trans*-Stilbene Oxides with Boron Trifluoride Etherate. An Exercise in ^{1}H NMR Spectroscopy for Sophomore Organic Laboratories. January, 79–80.
Shabanova, E.; Nissum, M.; Nielsen, O. F. The Second-Order ^{13}C Diamond Raman Spectrum: An Introduction to Vibrational Spectroscopy of the Solid State. May, 633–637.
Shane, E. C.; Price-Everett, M.; Hanson, T. Fluorescence Measurement of Pyrene Wall Adsorption and Pyrene Association with Humic Acids. An Experiment for Physical Chemistry or Instrumental Methods. December, 1617–1618.
Shank, N. E. The Influence of Solidification Techniques on the History of Material Culture. (POC) September, 1133–1137.
Shearer, J.; Liberko, C. A. Preparation of a Surface-Oriented Liquid Crystal. An Experiment for the Undergraduate Organic Chemistry Laboratory. September, 1204–1205.
Shirts, R. B.; Aymard, C. Pixel Conversion: A Simple Way to Extract Coordinates of Points from a Printed Graph. September, 1230–1232.
Shorokhov, D. J.; Haaland, A.; Helgaker, T. U.; Ruud, K. Should Gaseous BF_3 and SiF_3 Be Described as Ionic Compounds? August, 1076–1080.
Siek, T. J.; Macherone, A. J. Identification of Pharmaceuticals via Computer-Aided Thin Layer Chromatography. March, 366–367.
Sigfusson, T. I.; Kvaran, Á.; Haraldsson, Á. H. Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. October, 1345–1347.
Silveira, A.; LeFevre, J. W. Quantitative Determination of Methylcyclohexanone Mixtures Using ^{13}C NMR Spectroscopy. A Project for an Advanced Chemistry Laboratory. January, 83–85.
Silverstein, T. P. Equilibrium: A Teaching/Learning Activity (re *J. Chem. Educ.* **1998**, *75*, 1176–1177 and *J. Chem. Educ.* **1999**, *76*, 900). (LTE) November, 1410.
Silverstein, T. P. Graphing Calculator Strategies for Solving Chemical Equilibrium Problems (re *J. Chem. Educ.* **1999**, *76*, 632–634). (LTE) September, 1120.
Silverstein, T. P. Weak vs Strong Acids and Bases: The Football Analogy. (AA) July, 849–850.
Singh, M. M.; McGowan, C. B.; Szafran, Z.; Pike, R. M. A Comparative Study of Microscale and Standard Burets. (ML) May, 625–626.
Singmaster, K. A.; Wade, E. A.; Clemes, T. P. Photochemistry of Chloropicrin. A Physical Chemistry Project. July, 898–900.
Skoglund, K.; Graham, K. J.; Schaller, C. P.; Muldoon, W. P.; Klassen, J. B. Molecular Modeling to Predict Regioselectivity of Hydration Reactions. March, 396–397.
Smith, D. W. Coulombic Models in Chemical Bonding (re *J. Chem. Educ.* **1998**, *75*, 923–925 and *J. Chem. Educ.* **1998**, *75*, 907–909). (LTE) April, 445.
Smith, D. W. The Antibonding Effect. June, 780–784.
Sotomayor, J.; Dionísio, M. A Surface Chemistry Experiment Using an Inexpensive Contact Angle Goniometer. (CET) January, 59–62.
Spickett, E.; Boyce, M. Separation and Quantification of Preservatives Using Ion Pair HPLC and CZE. An Extended Investigation of Separation Mechanisms. (TICI) June, 740–742.
Stachulski, A. V.; Lennard, M. S. Drug Metabolism: The Body's Defense against Chemical Attack. (POC) March, 349–353.
Stacy, A. M.; Rickey, D. The Role of Metacognition in Learning Chemistry. July, 915–920.
Starkey, R. SOS: A Mnemonic for the Stereochemistry of Glucose. June, 734.
Steadman, B.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Toth, J. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Stevens, K. E. Experimentation and Group Discussion as a Means of Determining Solubility Rules. March, 327–328.
Storer, D. A.; Sarquis, A. M. Measuring Soil Phosphates Using Ion-Exchange Resins. A Final Project for Freshman Chemistry. June, 748–749.
Stout, R. P. "The Chemicals Project": Connecting General Chemistry to Students' Lives. October, 1301–1302.
Strait, M.; Wiegand, D. What Is Service Learning? December, 1538–1539.
Strotman, N. A.; Bender, J. D.; Catino, A. J.; Hess, K. R.; Lassman, M. E.; Lebet, P. A.; Reinard, M. D.; Pike, C. S. A Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. November, 1466–1468.
Stumpo, V. M.; Hoffman, B.; Mitchell, E.; Roulhac, P.; Thomes, M. Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) January, 95–96.
Sturm, J. E. Ernest Rutherford, Avogadro's Number, and Chemical Kinetics Revisited (re *J. Chem. Educ.* **1998**, *75*, 998–1003). (LTE) October, 1278–1279.
Summer, J. M.; Mirafzal, G. A. Microwave Irradiation Reactions: Synthesis of Analgesic Drugs. March, 356–357.
Swanson, W. F.; Carlson, M. W.; Ciszewski, J. T.; Bhatti, M. M.; Wilson, A. M. A Simple Secondary Amine Synthesis: Reductive Amination Using Sodium Triacetoxyborohydride. February, 270–271.
Sweeney, W. V.; Mills, P. A.; DeMeo, S.; Marino, R.; Clarkson, S. Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. September, 1158–1161.
Sweeney, W. V.; Mills, P. A.; Marino, R.; Clarkson, S. A New Approach to Teaching Introductory Science: The Gas Module. September, 1161–1165.
Szafran, Z.; Singh, M. M.; McGowan, C. B.; Pike, R. M. A Comparative Study of Microscale and Standard Burets. (ML) May, 625–626.

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Taagepera, M.; Noori, S. Mapping Students' Thinking Patterns in Learning Organic Chemistry by the Use of Knowledge Space Theory. (CER) September, 1224–1229.
Tabbutt, F. D. *Water*: A Powerful Theme for an Interdisciplinary Course. December, 1594–1601.
Tabbutt, F. D. What Does It Mean to Be a Professor? (re *J. Chem. Educ.* **1999**, *76*, 1610–1611). (LTE) December, 1559.
Takács, M. G.; Keszei, E.; Vizkeleti, B. A Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. July, 927–928.
Tang, C.; Barton, J. S.; Reed, S. S. Dipeptide Sequence Determination: Analyzing Phenylthiohydantoin Amino Acids by HPLC. February, 268–269.
Tang, Z.; Herman, H. B.; Jezorek, J. R. Analysis of Diet Tonic Water Using Capillary Electrophoresis. An Undergraduate Instrumental Analysis Experiment. June, 743–744.
Tarbet, B. J.; Hancock, R. D. The Other Double Helix—The Fascinating Chemistry of Starch. August, 988–992.
Taylor, J. W.; Atwood, C. H.; Hutchings, P. A. Why Are Chemists and Other Scientists Afraid of the Peer Review of Teaching? February, 239–243.
Teh, Y. S.; Cotterill, A. S.; John, D. N. Consumer Views on Chemical Additives: Are They Natural or Synthetic? A Non-Laboratory-Based Project. October, 1307–1308.
Tellinghuisen, J. Nonlinear Least-Squares Using Microcomputer Data Analysis Programs: KaleidaGraph™ in the Physical Chemistry Teaching Laboratory. (CBB) September, 1233–1239.
Tennis, R.; Bailey, R.; Henderson, G. Vibrational Spectra and Heat Capacity of Methane, and the Speed of Sound. December, 1634–1636.
Terneus, K.; Volker, E. J.; DiLella, D.; Baldwin, C.; Volker, I. The Determination of Ergosterol in Environmental Samples: An Interdisciplinary Project Involving Techniques of Analytical and Organic Chemistry. December, 1621–1623.
Thomes, M.; Hoffman, B.; Mitchell, E.; Roulhac, P.; Stumpo, V. M. Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) January, 95–96.
Thomsen, V. B. LeChâtelier's Principle in the Sciences. February, 173–176.
Thorsen, K. *Chem 13 News*: Ways to Teach in the Classroom and Beyond. (ROJ) January, 18–20.
Thorsen, K. *Chem 13 News*: Ways to Teach in the Classroom and Beyond. (ROJ) July, 824.
Toby, S. The Relationship between Stoichiometry and Kinetics. February, 188–190.
Toma, H. E.; Araki, K.; Dovidauskas, S. A Cyclic Voltammetry Experiment Illustrating Linkage Isomers, Redox Potentials, Equilibrium Constants, and Substitution Reactions in Coordination Chemistry. October, 1351–1353.
Toomey, R.; Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; DePierro, E.; Garafalo, F. Encouraging Meaningful Quantitative Problem Solving. September, 1166–1173.
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Toth, J.; Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B. Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) March, 363–365.
Toubeau, E.; Durieu, V.; Martiat, G.; Vandergeten, M. C.; Pirsoul, F.; Van Camp, A. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Towns, M. H.; Kreke, K.; Fields, A. An Action Research Project: Student Perspectives on Small-Group Learning in Chemistry. (CER) January, 111–115.
Trainer, M. E.; Schaeffer, R. W.; Chan, B. C.; Marshall, S. R.; Blasiole, B.; Khan, N.; Yoder, K. L.; Yoder, C. H. Preparation and Analysis of Multiple Hydrates of Simple Salts. April, 509–510.
Treagust, D. F. The Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558). (LTE) December, 1560.
Treichel, P. M.; Dopke, N. C.; Vestling, M. M. Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. August, 1065–1069.
Triest, M.; Bussière, G.; Bélisle, H.; Reber, C. Why Does the Middle Band in the Absorption Spectrum of $Ni(H_2O)_6^{2+}$ Have Two Maxima? (JCE Online) May, 670.
Tsai, C. S. Microcomputer Applications in Biochemistry. (TECH) February, 219–221.
Tsegai, Z. M.; Freeman, F.; Kasner, M. L.; Hehre, W. J. A Comparison of the ab Initio Calculated and Experimental Conformational Energies of Alkylcyclohexanes. May, 661–667.

Tubergen, M. J.; Lavrich, R. J.; McCargar, J. W. Infrared Spectrum and Group Theoretical Analysis of the Vibrational Modes of Carbonyl Sulfide. December, 1637–1639.
Tudela, D. Bond Strength in Transition Metals (re *J. Chem. Educ.* **1999**, *76*, 1272–1275). (LTE) November, 1410–1411.
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Urbansky, E. T. Carbinolamines and Geminal Diols in Aqueous Environmental Organic Chemistry. December, 1644–1647.
Urbansky, E. T.; Schock, M. R. Understanding, Deriving, and Computing Buffer Capacity. December, 1640–1644.
Urgikar, V. Interpretation of the Second Virial Coefficient (re *J. Chem. Educ.* **1999**, *76*, 671–675). (LTE) November, 1409.

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Van Camp, A.; Durieu, V.; Martiat, G.; Vandergeten, M. C.; Pirsoul, F.; Toubeau, F. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Van Lanen, R. J.; Lockie, N. M.; McGannon, T. Predictors of Nursing Students' Performance in a One-Semester Organic and Biochemistry Course. (CER) June, 767–770.
Vandergeten, M. C.; Durieu, V.; Martiat, G.; Pirsoul, F.; Toubeau, F.; Van Camp, A. Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. June, 752–753.
Varnek, A. A.; Dietrich, B.; Wipff, G.; Lehn, J.; Boldyreva, E. V. Supramolecular Chemistry. Computer-Assisted Instruction in Undergraduate and Graduate Chemistry Courses. February, 222–226.
Vasbinder, E.; Kastner, M. E.; Kowalcyzk, D.; Jackson, S.; Giammalvo, J.; Braun, J.; DiMarco, K. Crystallographic CourseWare. (JCE Software) September, 1247–1248.
Vasilarou, A. G.; Georgiou, C. A. Enzymatic Spectrophotometric Reaction Rate Determination of Glucose in Fruit Drinks and Carbonated Beverages. An Analytical Chemistry Laboratory Experiment for Food Science–Oriented Students. October, 1327–1329.
Vesnaver, G.; Poklar, N. Thermal Denaturation of Proteins Studied by UV Spectroscopy. March, 380–382.
Vestling, M. M.; Dopke, N. C.; Treichel, P. M. Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. August, 1065–1069.
Vicente, F.; García-Jareño, J. J.; Benito, D.; Sanmatías, A. Simulation of Impedance Spectra: A Computational and Electrochemical Exercise for University Students. (TICI) June, 738–739.
Vidal-Ferran, A.; Bampos, N. Understanding NMR Multiplet Structure with WinDNMR. January, 130–133.
Vitz, E. Paradoxes, Puzzles, and Pitfalls of Incomplete Combustion Demonstrations. August, 1011–1013.
Vizkeleti, B.; Keszei, E.; Takács, M. G. A Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. July, 927–928.
Volker, E. J.; DiLella, D.; Terneus, K.; Baldwin, C.; Volker, I. The Determination of Ergosterol in Environmental Samples: An Interdisciplinary Project Involving Techniques of Analytical and Organic Chemistry. December, 1621–1623.
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Volkovich, V. A.; Griffiths, T. R. Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) February, 177.
Vollmer, J. J. Crystals Out of "Thin Air". (CFK) April, 486–488.
Vollmer, J. J. Out of "Thin Air": Exploring Phase Changes. (JCE Activity) April, 488.
Vorndam, P. E. Capsaicin Hazard (re *J. Chem. Educ.* **2000**, *77*, 266–267). (LTE) April, 444.

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Waddell, T. G.; Rybolt, T. R. The Chemical Adventures of Sherlock Holmes: The Ghost of Gordon Square. April, 471–474.
Wade, E. A.; Clemes, T. P.; Singmaster, K. A. Photochemistry of Chloropicrin. A Physical Chemistry Project. July, 898–900.
Wagner, B. D.; MacDonald, P. J.; Wagner, M. A Visual Demonstration of Supramolecular Chemistry: Observable Fluorescence Enhancement upon Guest–Host Inclusion. (TD) February, 178–181.
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Wakefield, C. B.; Phillips, C. Virial Coefficients Using Different Equations of State. (CBB) October, 1371–1374.
Wakefield, D.; Eliason, R.; Lee, E. J.; Bergren, A. Improvement of Sugar–Chlorate Rocket Demonstration. (TD) December, 1581–1583.
Wakeley, D. M.; de Grys, H. Developing an Intuitive Approach to Moles. (SSC) August, 1007–1009.
Walczyk, J.; Deese, W. C.; Ramsey, L. L.; Eddy, D. Using Demonstration Assessments to Improve Learning. (CER) November, 1511–1516.
Waldeck, D. H.; Butera, R. A. An EPR Experiment for the Undergraduate Physical Chemistry Laboratory. November, 1489–1491.
Wallington, T. J.; Andino, J. M.; Hurley, M. D.; Wayne, R. P. A Classroom Demonstration of the Formation of Aerosols from Biogenic Hydrocarbons. (TD) December, 1584–1586.
Walters, J. P.; Jackson, P. T. Role-Playing in Analytical Chemistry: The Alumni Speak. August, 1019–1025.
Wang, C.; Wang, X.; Wang, Y.; Wang, X.; Wang, H. A Practical Procedure for the Solid-Phase Synthesis of Azo Compounds in the Undergraduate Organic Laboratory. July, 903–904.
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Wang, M. R. An Introductory Laboratory Exercise on Solution Preparation: A Rewarding Experience. February, 249–250.
Wang, X.; Wang, C.; Wang, X.; Wang, Y.; Wang, H. A Practical Procedure for the Solid-Phase Synthesis of Azo Compounds in the Undergraduate Organic Laboratory. July, 903–904.
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Wayne, R. P.; Andino, J. M.; Wallington, T. J.; Hurley, M. D. A Classroom Demonstration of the Formation of Aerosols from Biogenic Hydrocarbons. (TD) December, 1584–1586.
Weigand, W. A. Determining the EDTA Content in a Consumer Shower Cleaner. An Introductory Chemistry Laboratory Experiment. October, 1334.
Weiner, S. W.; Cerpovicz, P. F.; Dixon, D. W.; Harden, D. B.; Hobbs, D. S.; Gosnell, D. L. RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) March, 401–406.
Weston, R. E. Climate Change and Its Effect on Coral Reefs. December, 1574–1577.
Wheatley, R. J.; Reid, K. L.; Horton, J. C.; Brydges, S. W. Using Computer Assisted Learning to Teach Molecular Reaction Dynamics. (TECH) March, 407–409.
Wheeler, D. E. To the Front of the Class. November, 1440.
Whisnant, D. M. General Chemistry Multimedia Problems. (JCE Software) October, 1375–1376.
Whisnant, D. M.; Howe, J. J.; Lever, L. S. Collaborative Physical Chemistry Projects Involving Computational Chemistry. (CBB) February, 199–201.
Whisnant, D. M.; Lever, L. S.; Howe, J. J. Cl_2O_4 in the Stratosphere: A Collaborative Computational Physical Chemistry Project. (CBB) December, 1648–1649.
White, B. S.; Zeigarnik, A. V.; Valdés-Pérez, R. E. Proposed Methodological Improvement in the Elucidation of Chemical Reaction Mechanisms Based on Chemist–Computer Interaction. February, 214–218.
White, H. B.; Johnston, M. V.; Panar, M. Senior Seminar Focusing on Societal Issues Related to Chemistry and Biochemistry. December, 1590–1593.
White, M. D.; Huddle, P. A.; Rogers, F. Simulations for Teaching Chemical Equilibrium. July, 920–926.
White, M. D.; Huddle, P. A.; Rogers, F. Using a Teaching Model to Correct Known Misconceptions in Electrochemistry. (CER) January, 104–110.
Whitla, A.; Amend, J. R.; Morgan, M. E. Inexpensive Digital Monitoring of Signals from a Spectronic-20 Spectrophotometer. (CET) February, 252–253.
Wiegand, D.; Strait, M. What Is Service Learning? December, 1538–1539.
Wierzbicki, A.; Young, S. Linear Least-Squares Regression. (MCAD) May, 669.
Wierzbicki, A.; Young, S. Non-Linear Least-Squares Regression. (MCAD) May, 669–670.
Willemsen, J. J. A Ten-Dollar Stirring Device for the Microscale Laboratory. (CET) November, 1476.
Willett, K. L.; Hites, R. A. Chemical Actinometry: Using *o*-Nitrobenzaldehyde to Measure Lamp Intensity in Photochemical Experiments. July, 900–902.
Williams, B. D.; Williams, B.; Rodino, L. Synthesis of the Sweetener Dulcin from the Analgesic Acetominophen. March, 357–359.
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Williams, K. R. A Burning Issue. (FPI) May, 558–559.
Williams, K. R. Ancient Recipes. (FPI) March, 300–301.
Williams, K. R.; Bravo, R. Micelles in the Physical Chemistry Laboratory: Diffusion Coefficients and Half-Wave Potentials of Ferrocene. March, 392–394.
Williams, K. R. Let It Snow! (FPI) February, 148–149.
Williams, K. R. Micelles in the Physical Chemistry Laboratory. Kinetics of Hydrolysis of 5,5′-Dithiobis-(2-nitrobenzoate) in Basic Solution. May, 626–628.
Williams, K. R. Old Friends: Slide Rules and Such. (FPI) April, 436–437.
Williams, K. R. Refrigeration—From Ice Man to Ozone Hole. (FPI) December, 1540–1541.
Williams, P.; Ziaei-Moayyed, M.; Goodman, E. Electrical Deflection of Polar Liquid Streams: A Misunderstood Demonstration. November, 1520–1524.
Williams, T. R.; Edmiston, P. L. An Analytical Laboratory Experiment in Error Analysis: Repeated Determination of Glucose Using Commercial Glucometers. March, 377–379.
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CUR, NCUR, and a Student Perspective on a National Research Conference. (CUR) Cochran, J. C.; Neidig, M. L. February, 146–148.
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Atomic Properties/Structure

Closed-Form Spherical Harmonics: Explicit Polynomial Expression for the Associated Legendre Functions. Mulder, J. J. February, 244.
Comments on Kinetic, Potential, and Ionization Energies. (Commentary) Lowe, J. P. February, 155–156.
Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) Hoffman, B.; Mitchell, E.; Roulhac, P.; Thomes, M.; Stumpo, V. M. January, 95–96.
Developing an Intuitive Approach to Moles. (SSC) Wakeley, D. M.; de Grys, H. August, 1007–1009.
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Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. Laughlin, J. B.; Sarquis, J. L.; Jones, V. M.; Cox, J. A. January, 77–79.

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Atomic Absorption Spectroscopy of Calcium in Foodstuffs in Non-Science-Major Courses. Kostecka, K. S. October, 1321–1323.
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Brief History of Atomic Emission Spectrochemical Analysis, 1666–1950. (Waters) Jarrell, R. F. May, 573–576.
History of Thermo Jarrell Ash Corporation and Spectroscopist Richard F. Jarrell. (Waters) Jarrell, R. F.; Brech, F.; Gustafson, M. J. May, 592–598.
Inductively Coupled Plasma–Mass Spectrometry and the European Discovery of America. (Waters) Houk, R. S. May, 598–607.
Introduction to the 10th Annual James L. Waters Symposium at Pittcon: Atomic Emission Spectroscopy. (Waters) Coetzee, J. F. May, 573.
Invention of the Annular Inductively Coupled Plasma as a Spectroscopic Source. (Waters) Greenfield, S. May, 584–591.
Undergraduate Experiment for the Measurement of Trace Metals in Core Sediments by ICP–AES and GFAAS. Mabury, S. A.; Mathers, D. T.; Ellis, D. A.; Lee, P.; Marsella, A. M.; Douglas, M. December, 1611–1612.

Award Address

Every Year Begins a Millennium. 2000 George C. Pimentel Award. (Award Address) Bell, J. A. September, 1098–1104.
Lessons for the 21st Century. 1999 James Flack Norris Award. (Award Address) Lagowski, J. J. July, 818–823.

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Ant Activity Associated with a Chemical Compound. Rigatuso, R.; Bertoluzzo, S. M.; Quattrin, F. E.; Bertoluzzo, M. G. February, 183–185.
Application of Electrodialysis to Desalting an Amino Acid Solution. García-García, V.; Montiel, V.; González-García, J.; Expósito, E.; Iniesta, J.; Bonete, P.; Inglés, M. November, 1477–1479.
Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. Halkides, C. J. November, 1428–1432.
Biochemical GC–MS Application for the Organic Chemistry Laboratory: Determination of Fatty Acid Composition of *Arabidopsis thaliana* Lipids. Bender, J. D.; Catino, A. J.; Hess, K. R.; Lassman, M. E.; Leber, P. A.; Reinard, M. D.; Strotman, N. A.; Pike, C. S. November, 1466–1468.
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Candies to Dye for: Cooperative, Open-Ended Student Activities to Promote Understanding of Electrophoretic Fractionation. Emry, R.; Cuttright, R. D.; Wright, J.; Markwell, J. October, 1323–1324.
Complete Analysis of a Biologically Active Tetrapeptide: A Project Utilizing Thin-Layer Chromatography and Tandem Quadrupole Mass Spectrometry. (ML) LeFevre, J. W.; Dodsworth, D. W. April, 503–504.
Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. Fenk, C. J.; Grooms, S. Y.; Gerbig, D. G. March, 373–374.
Dipeptide Sequence Determination: Analyzing Phenylthiohydantoin Amino Acids by HPLC. Barton, J. S.; Tang, C.; Reed, S. S. February, 268–269.
DNA Topology Analysis in the Undergraduate Biochemistry Laboratory. Keck, M. V. November, 1471–1473.
Drug Metabolism: The Body's Defense against Chemical Attack. (POC) Stachulski, A. V.; Lennard, M. S. March, 349–353.
Identification and Quantitation of Plasma Membrane Components: A Biochemical Experiment for Lipid Investigations. Keys, S. November, 1463–1465.
Immunoprecipitation of Serum Albumin with Protein A–Sepharose. A Biochemistry Laboratory Experiment. Bohinski, R. C. November, 1460–1462.
Inexpensive Gradient Maker for the Biochemistry Laboratory. (CET) Flurkey, B. August, 1041.
Lipid Wordsearch. Helser, T. L. April, 479.
Liquid Chromatographic Determination of Amnesic Shellfish Poison in Mussels. Duxbury, M. October, 1319–1320.
Microcomputer Applications in Biochemistry. (TECH) Tsai, C. S. February, 219–221.
Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) Dabrowiak, J. C.; Hatala, P. J.; McPike, M. March, 397–400.
Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. Gallardo, F.; Gálvez, S.; Medina, M. A.; Heredia, A.; Gómez-Moreno, C. March, 375–377.
Predictors of Nursing Students' Performance in a One-Semester Organic and Biochemistry Course. (CER) Van Lanen, R. J.; Lockie, N. M.; McGannon, T. June, 767–770.
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Problem-Solving Approach to Chromatography in the Biochemistry Lab. Gorga, F. R. February, 264–265.
Proton NMR Studies of the Conformation of an Octapeptide. An NMR Exercise for Biophysical Chemistry. Rehart, A. M.; Gerig, J. T. July, 892–894.
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Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. Dopke, N. C.; Treichel, P. M.; Vestling, M. M. August, 1065–1069.
Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) Johnson, K. November, 1451–1452.
Sugar Wordsearch. Helser, T. L. April, 480.
Teaching Noncovalent Interactions in the Biochemistry Curriculum through Molecular Visualization: The Search for π Interactions. (CIB) Cox, J. R. November, 1424–1428.
Understanding Enzyme Inhibition. Ochs, R. S. November, 1453–1456.
Unexpected Event When Chymotrypsin Performs Its Physiological Role. Darvey, I. G. March, 422.

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Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. Halkides, C. J. November, 1428–1432.
Chemical–Medical Mystery: Gold Jewelry and Black Marks on Skin. (AA) Kebbekus, B. B. October, 1298–1299.
Other Double Helix—The Fascinating Chemistry of Starch. Hancock, R. D.; Tarbet, B. J. August, 988–992.
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Two Faces of Alkaloids. Dostál, J. August, 993–998.
Using Microorganisms in Synthetic Organic Chemistry. (POC) Roberts, S. M. March, 344–348.

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Ant Activity Associated with a Chemical Compound. Rigatuso, R.; Bertoluzzo, S. M.; Quattrin, F. E.; Bertoluzzo, M. G. February, 183–185.
Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) Dabrowiak, J. C.; Hatala, P. J.; McPike, M. March, 397–400.

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Thermal Denaturation of Proteins Studied by UV Spectroscopy. Poklar, N.; Vesnaver, G. March, 380–382.
Thermodynamics of DNA Duplex Formation. A Biophysical Chemistry Laboratory Experiment. Howard, K. P. November, 1469–1471.

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Chemistry Course with a Laboratory for Non-Science Majors. Schultz, E. August, 1001–1006.
Design of Experiments (re *J. Chem. Educ.* **1999**, *76*, 1560–1561). (LTE) Birney, D. M. December, 1557.
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Developing New Antibiotics with Combinatorial Biosynthesis. (POC) Pohl, N. L. November, 1421–1423.
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Using Microorganisms in Synthetic Organic Chemistry. (POC) Roberts, S. M. March, 344–348.

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Antibonding Effect. Smith, D. W. June, 780–784.
Bond Valence Model as a Tool for Teaching Inorganic Chemistry: The Ionic Model Revisited. Brown, I. D. August, 1070–1075.
Coulombic Models in Chemical Bonding (re *J. Chem. Educ.* **1998**, *75*, 923–925 and *J. Chem. Educ.* **1998**, *75*, 907–909). (LTE) Sacks, L. J. April, 445.
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Should Gaseous BF_3 and SiF_4 Be Described as Ionic Compounds? Haaland, A.; Helgaker, T. U.; Ruud, K.; Shorokhov, D. J. August, 1076–1080.
Simplified Mathematical Model for Calculating the Lattice Energies of Binary Group I and Group II Ionic Compounds: Using Solver to Estimate the Empirical Constants. (CBB) Carter, A. August, 1081–1084.
Understanding Trends in C–H, N–H, and O–H Bond Dissociation Enthalpies. Ingold, K. U.; Wright, J. S. August, 1062–1064.

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No, the Molecular Mass of Bromobenzene Is Not 157 amu: An Exercise in Mass Spectrometry and Isotopes for Early General Chemistry. Schildcrout, S. M. November, 1433–1434.

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Atomic Absorption Spectroscopy of Calcium in Foodstuffs in Non-Science-Major Courses. Kostecka, K. S. October, 1321–1323.

Carbohydrates

Cabbage Patch Chemistry. (JCE Activity) JCE Editorial Staff. November, 1432.
Drug Metabolism: The Body's Defense against Chemical Attack. (POC) Stachulski, A. V.; Lennard, M. S. March, 349–353.
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SOS: A Mnemonic for the Stereochemistry of Glucose. Starkey, R. June, 734.
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Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. Halkides, C. J. November, 1428–1432.
Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. Kvaran, Á.; Haraldsson, Á. H.; Sigfusson, T. I. October, 1345–1347.
Surface Oxidation Kinetics: A Scanning Tunneling Microscopy Experiment. Poler, J. C. September, 1198–1200.

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Cabbage Patch Chemistry. (JCE Activity) JCE Editorial Staff. November, 1432.
Catalytic Asymmetric Epoxidation Using a Fructose-Derived Catalyst. Burke, A.; Dillon, P.; Martin, K.; Hanks, T. W. February, 271–272.
Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) Volkovich, V. A.; Griffiths, T. R. February, 177.
Determination of the Real Surface Area of Pt Electrodes by Hydrogen Adsorption Using Cyclic Voltammetry. Doña Rodríguez, J. M.; Herrera-Melián, J. A.; Pérez-Peña, J. September, 1195–1197.
Green Chemistry in the Organic Teaching Laboratory: An Environmentally Benign Synthesis of Adipic Acid. Reed, S. M.; Hutchison, J. E. December, 1627–1629.
Heck Reaction: A Microscale Synthesis Using a Palladium Catalyst. (ML) Martin, W. B.; Kateley, L. J. June, 757–759.
Introduction to Homogeneous Catalysis: Carbon–Carbon Bond Formation Catalyzed by a Defined Palladium Complex. Herrmann, W. A.; Böhm, V. P.; Reisinger, C. January, 92–95.
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Action Research Project: Student Perspectives on Small-Group Learning in Chemistry. (CER) Towns, M. H.; Kreke, K.; Fields, A. January, 111–115.
Are We Taking Symbolic Language for Granted? Marais, P.; Jordaan, F. October, 1355–1357.
Assessment of Students and Teachers' Understanding of Gas Laws. (CER) Lin, H.; Cheng, H.; Lawrenz, F. February, 235–238.
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Chemophobia in the College Classroom: Extent, Sources, and Student Characteristics. Eddy, R. M. April, 514–517.
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Hidden Insights in the Science Education Research Literature. (ROJ) Robinson, W. R. May, 556–557.
Interactive Nano-Visualization of Materials over the Internet. (NSF) Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. September, 1114–1115.
Interview with Alex H. Johnstone. Cardellini, L. December, 1571–1573.
Learning about Atoms, Molecules, and Chemical Bonds: A Case Study of Multiple-Model Use. (ROJ) Robinson, W. R. September, 1110–1111.
Life before and after Computers in General Chemistry Laboratory. Jones, R. B. August, 1085–1087.
Mapping Students' Thinking Patterns in Learning Organic Chemistry by the Use of Knowledge Space Theory. (CER) Taagepera, M.; Noori, S. September, 1224–1229.
Measuring Conceptual Change in Organic Chemistry. (CER) Nash, J. G.; Liotta, L. J.; Bravaco, R. J. March, 333–337.
Mission Statement for Chemical Principles Revisited. (CPR) Kilner, C. June, 679.
Predictors of Nursing Students' Performance in a One-Semester Organic and Biochemistry Course. (CER) Van Lanen, R. J.; Lockie, N. M.; McGannon, T. June, 767–770.
Process Workshops—A New Model for Instruction. Hanson, D. M.; Wolfskill, T. January, 120–130.
Proposed Methodological Improvement in the Elucidation of Chemical Reaction Mechanisms Based on Chemist–Computer Interaction. Zeigarnik, A. V.; Valdés-Pérez, R. E.; White, B. S. February, 214–218.
Quantitative Literature Review of Cooperative Learning Effects on High School and College Chemistry Achievement. (CER) Bowen, C. W. January, 116–119.
Role of Metacognition in Learning Chemistry. Rickey, D.; Stacy, A. M. July, 915–920.
Role-Playing in Analytical Chemistry: The Alumni Speak. Jackson, P. T.; Walters, J. P. August, 1019–1025.
Simulations for Teaching Chemical Equilibrium. Huddle, P. A.; White, M. D.; Rogers, F. July, 920–926.
Student-Directed Learning in the Organic Chemistry Laboratory. Hass, M. A. August, 1035–1038.
Students Using Chemistry Courseware—Insights from a Qualitative Study. (TECH) Pavlinic, S.; Wright, A. H.; Buckley, P. D. February, 231–234.
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Why Are Chemists and Other Scientists Afraid of the Peer Review of Teaching? Atwood, C. H.; Taylor, J. W.; Hutchings, P. A. February, 239–243.

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Developing an Intuitive Approach to Moles. (SSC) Wakeley, D. M.; de Grys, H. August, 1007–1009.
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Assessment of Students and Teachers' Understanding of Gas Laws. (CER) Lin, H.; Cheng, H.; Lawrenz, F. February, 235–238.
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Have Orbitals Really Been Observed? Scerri, E. R. November, 1492–1494.
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Using Particulate Drawings to Determine and Improve Students' Conceptions of Pure Substances and Mixtures. (CER) Sanger, M. J. June, 762–766.

Chemical Education Research—Particulate Nature of Matter

Interactive Nano-Visualization of Materials over the Internet. (NSF) Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. September, 1114–1115.
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Assessment of Students and Teachers' Understanding of Gas Laws. (CER) Lin, H.; Cheng, H.; Lawrenz, F. February, 235–238.
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Developing an Intuitive Approach to Moles. (SSC) Wakeley, D. M.; de Grys, H. August, 1007–1009.
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Illustrating Thermodynamic Concepts Using a Hero's Engine. (TD) Muiño, P. L.; Hodgson, J. R. May, 615–617.
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What Chemistry to Teach Engineers? Hawkes, S. J. March, 321–326.

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Chem 13 News: Ways to Teach in the Classroom and Beyond. (ROJ) Thorsen, K. January, 18–20.
Chemist Doing Library Research—AD 2000. (FPI) Drum, C.; Ashcraft, J. January, 23–24.
Hidden Insights in the Science Education Research Literature. (ROJ) Robinson, W. R. May, 556–557.
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Organic Acids without a Carboxylic Acid Functional Group. Perez, G. V.; Perez, A. L. July, 910–915.
Scholarship in the Chemical Sciences and Engineering. (Editorial) Moore, J. W. November, 1383.
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View of the Science Education Research Literature: Scientific Discovery Learning with Computer Simulations. (ROJ) Robinson, W. R. January, 17–18.

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Chemistry for Kids

Crystals Out of "Thin Air". (CFK) Vollmer, J. J. April, 486–488.
Successful Model for an Academic–Industrial Partnership for Elementary Science Education. (CFK) Cannon, K. C.; Sandler, S. R. October, 1291–1294.

Chirality/Optical Isomers

Application of the Correlation Method to Vibrational Spectra of C_{60} and Other Fullerenes: Predicting the Number of IR- and Raman-Active Bands. Nakamoto, K.; McKinney, M. A. June, 775–780.
Introducing Chiroscience into the Organic Laboratory Curriculum. (NSF) Lipkowitz, K. B.; Naylor, T.; Anliker, K. S. March, 305–307.
Solvent Swelling and Optical Rotation Demonstrated on the Overhead Projector. (OPD) Campbell, D. J.; Rupe, S. B. July, 876–878.

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Gaseous-Ion Fragmentation Mechanisms in Chlorobenzenes by GC/MS and GC/MS/MS: A Physical-Chemical Approach for Undergraduates. Schildcrout, S. M. April, 501–502.

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Understanding NMR Multiplet Structure with WinDNMR. Bampos, N.; Vidal-Ferran, A. January, 130–133.
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Teaching Noncovalent Interactions in the Biochemistry Curriculum through Molecular Visualization: The Search for π Interactions. (CIB) Cox, J. R. November, 1424–1428.

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Division News and Announcements. (ACS) Bunce, D. M. March, 297.
Especially for High School Teachers. Howell, J. E. January, 9; February, 143; June, 679; July, 807; August, 945; November, 1385.
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Cubic Unit Cell Construction Kit. (CET) Mattson, B. May, 622–623.
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Hand-Held Conductivity Meter and Probe for Small Volumes and Field Work. (CET) Ganong, B. R. December, 1606–1608.
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Cornell College Students Achieve the Highly Improbable. Ault, A. November, 1386–1387.
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Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. March, 363–365.
Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) Johnson, K. November, 1451–1452.
Understanding Enzyme Inhibition. Ochs, R. S. November, 1453–1456.
Unexpected Event When Chymotrypsin Performs Its Physiological Role. Darvey, I. G. March, 422.
Using Microorganisms in Synthetic Organic Chemistry. (POC) Roberts, S. M. March, 344–348.

Equilibrium

Approaching Equilibrium in the N_2O_4–NO_2 System: A Common Mistake in Textbooks. Leenson, I. A. December, 1652–1655.
Are We Taking Symbolic Language for Granted? Marais, P.; Jordaan, F. October, 1355–1357.
Closer Look at Phase Diagrams for the General Chemistry Course. Gramsch, S. A. June, 718–723.
Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558. (LTE) Paiva, J. C.; Gil, V. M. December, 1560.
Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558. (LTE) Treagust, D. F. December, 1560.
Cyclic Voltammetry Experiment Illustrating Linkage Isomers, Redox Potentials, Equilibrium Constants, and Substitution Reactions in Coordination Chemistry. Toma, H. E.; Araki, K.; Dovidauskas, S. October, 1351–1353.
Determination of K_{sp}, $\Delta G°$, $\Delta H°$, and $\Delta S°$ for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. Euler, W. B.; Kirschenbaum, L. J.; Ruekberg, B. August, 1039–1040.
Distribution Constant of Iodine between Aqueous and Organic Phases. McDowell, S. A. September, 1213–1214.
Easy and Fast Experiment for the Determination of the Equilibrium Constants of an Acid–Base Pair, Free and Complexed with a Molecular Receptor. Junquera, E.; Aicart, E. September, 1215–1217.
Easy Derivation of pH = $(pK_{a_1} + pK_{a_2})/2$ Using Autoprotolysis of HA^-: Doubtful Value of the Supposedly More Rigorous Equation. Hawkes, S. J. September, 1183–1184.
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Graphing Calculator Strategies for Solving Chemical Equilibrium Problems (re *J. Chem. Educ.* **1999**, *76*, 632–634). (LTE) Donato, H. September, 1120–1121.
Inflection at the Triple Point (re *J. Chem. Educ.* **1999**, *76*, 226). (LTE) Myers, R. T. February, 160.
Inflection at the Triple Point (re *J. Chem. Educ.* **1999**, *76*, 226). (LTE) Hawkes, S. J. February, 160.
LeChâtelier's Principle in the Sciences. Thomsen, V. B. February, 173–176.
Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Mouriño, R. O.; Moura, G. C. February, 181–183.
Liquid–Liquid Equilibrium: Verification of the Lever Rule. Jordan, A. D. March, 395.
Modeling Chemical Processes in Seawater Aquaria to Illustrate Concepts in Undergraduate Chemistry. Grguric, G. April, 495–498.
Puzzle Concerning Solution Equilibria. (RSA) Gans, P. April, 489–490.
Reaction Feasibility and the Planck Function (re *J. Chem. Educ.* **1999**, *76*, 1448). (LTE) Jensen, W. B. November, 1411.
Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999**, *76*, 1393–1394. (LTE) Rioux, F. December, 1559.
Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999**, *76*, 1393–1394. (LTE) McDowell, S. A. December, 1559.
Simulating Dynamic Equilibria. A Class Experiment. (OPD) Harrison, J. A.; Buckley, P. D. August, 1013–1014.
Simulations for Teaching Chemical Equilibrium. Huddle, P. A.; White, M. D.; Rogers, F. July, 920–926.
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Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. Keszei, E.; Takács, M. G.; Vizkeleti, B. July, 927–928.
Understanding, Deriving, and Computing Buffer Capacity. Urbansky, E. T.; Schock, M. R. December, 1640–1644.

EPR/ESR Spectrometry

EPR Experiment for the Undergraduate Physical Chemistry Laboratory. Butera, R. A.; Waldeck, D. H. November, 1489–1491.
Understanding Trends in C–H, N–H, and O–H Bond Dissociation Enthalpies. Ingold, K. U.; Wright, J. S. August, 1062–1064.

Ethics

Senior Seminar Focusing on Societal Issues Related to Chemistry and Biochemistry. White, H. B.; Johnston, M. V.; Panar, M. December, 1590–1593.
Targeting Entry Points for Ethics in Chemistry Teaching and Learning. Coppola, B. P. November, 1506–1511.

Excited States/Energy Transfer

Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. Kvaran, Á.; Haraldsson, Á. H.; Sigfusson, T. I. October, 1345–1347.
Visible Absorption Spectroscopy and Structure of Cyanine Dimers in Aqueous Solution. An Experiment for Physical Chemistry. Horng, M.; Quitevis, E. L. May, 637–639.

Experiential, Cooperative, and Study Abroad Education

Chemical Education in Countries of the Former Soviet Union. (ECSA) Kozliak, E. I. July, 870–875.

Flow-Injection Analysis

Flow Injection as a Teaching Tool for Gravimetric Analysis. (TICI) Sartini, R. P.; Zagatto, E. A.; Oliveira, C. C. June, 735–737.

Fluorescence Spectrometry

Fluorescence Measurement of Pyrene Wall Adsorption and Pyrene Association with Humic Acids. An Experiment for Physical Chemistry or Instrumental Methods. Shane, E. C.; Price-Everett, M.; Hanson, T. December, 1617–1618.
Spectroscopic Determination of Ternary Phase Diagrams. (NSF) Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. June, 701–703.
Turbidometric Analysis of Water and Wastewater Samples Using a Spectrofluorimeter. Evans, J. J. December, 1609–1611.
Understanding the Origin of Luminescence in Porous Silicon. An Undergraduate Solid-State Chemistry Experiment. Lasher, D. P.; DeGraff, B. A.; Augustine, B. H. September, 1201–1203.

Food Science

Cabbage Patch Chemistry. (JCE Activity) JCE Editorial Staff. November, 1432.
Capsaicin Hazard (re *J. Chem. Educ.* **2000**, *77*, 266–267). (LTE) Jones, B. T. April, 444.
Capsaicin Hazard (re *J. Chem. Educ.* **2000**, *77*, 266–267). (LTE) Vorndam, P. E. April, 444.
Chemistry and Flatulence: An Introductory Enzyme Experiment. Hardee, J. R.; Montgomery, T. M., Jones, W. H. April, 498–500.
Determination of the Scoville Heat Value for Hot Sauces and Chilies: An HPLC Experiment. Batchelor, J. D.; Jones, B. T. February, 266–267.
Enzymatic Spectrophotometric Reaction Rate Determination of Glucose in Fruit Drinks and Carbonated Beverages. An Analytical Chemistry Laboratory Experiment for Food Science–Oriented Students. Vasilarou, A. G.; Georgiou, C. A. October, 1327–1329.
Flat as a Pancake? Exploring Rising in Baked Goods. (JCE Activity) JCE Editorial Staff. October, 1264.
Hot Chili Peppers: Extraction, Cleanup, and Measurement of Capsaicin. Huang, J.; Mabury, S. A.; Sagebiel, J. C. December, 1630–1631.
Liquid Chromatographic Determination of Amnesic Shellfish Poison in Mussels. Duxbury, M. October, 1319–1320.
National Chemistry Week 2000: *JCE* Resources in Food Chemistry. Jacobsen, E. K. October, 1256–1267.
News from Online: Kitchen Chemistry. (ROJ) Judd, C. S. October, 1268–1270.
Organic Vapor Sensors for Food Quality Assessment. (POC) Honeybourne, C. L. March, 338–344.
Other Double Helix—The Fascinating Chemistry of Starch. Hancock, R. D.; Tarbet, B. J. August, 988–992.

Forensic Chemistry

Identification of Pharmaceuticals via Computer-Aided Thin Layer Chromatography. Macherone, A. J.; Siek, T. J. March, 366–367.

Fourier Transform Techniques

Calibration of Frequency Data Collection Systems Using Shortwave Radio Signals. (CBB) Estler, R. C. September, 1244–1245.

Free Radicals

Bromination, Elimination, and Polymerization: A 3-Step Sequence for the Preparation of Polystyrene from Ethylbenzene. Sanford, E. M.; Hermann, H. L. October, 1343–1344.
Motivating Students in Sophomore Organic Chemistry by Examining Nature's Way—Why Are Vitamins E and C Such Good Antioxidants? (re *J. Chem. Educ.* **1999**, *76*, 1108–1112). (Correction) Beaver, B. D. July, 830.
Understanding Trends in C–H, N–H, and O–H Bond Dissociation Enthalpies. Ingold, K. U.; Wright, J. S. August, 1062–1064.

From Past Issues

Ancient Recipes. (FPI) Williams, K. R. March, 300–301.
Burning Issue. (FPI) Williams, K. R. May, 558–559.
Chemist Doing Library Research—AD 2000. (FPI) Drum, C.; Ashcraft, J. January, 23–24.
How Does One Become a Chemist? (FPI) Barón, M. July, 817.
Let It Snow! (FPI) Williams, K. R. February, 148–149.
Old Friends: Slide Rules and Such. (FPI) Williams, K. R. April, 436–437.
Refrigeration—From Ice Man to Ozone Hole. (FPI) Williams, K. R. December, 1540–1541.

Gases

Approaching Equilibrium in the N_2O_4–NO_2 System: A Common Mistake in Textbooks. Leenson, I. A. December, 1652–1655.
Assessment of Students and Teachers' Understanding of Gas Laws. (CER) Lin, H.; Cheng, H.; Lawrenz, F. February, 235–238.
Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) Hoffman, B.; Mitchell, E.; Roulhac, P.; Thomes, M.; Stumpo, V. M. January, 95–96.

Determining Oxygen Content of Air (re *J. Chem. Educ.* **1999**, *76*, 914–916). (LTE) Braathen, P. C. November, 1410.
Gas Me Up. or, A Baking Powder Diver. (TD) Derr, H. R.; Lewis, T.; Derr, B. J. February, 171–172.
Gas-Phase Kinetics of $O_3 + C_2H_2$ and $O_3 + H_2C{=}CCl_2$. Burley, J. D.; Roberts, A. M. September, 1210–1212.
Illustrating Thermodynamic Concepts Using a Hero's Engine. (TD) Muiño, P. L.; Hodgson, J. R. May, 615–617.
Infrared Spectrum and Group Theoretical Analysis of the Vibrational Modes of Carbonyl Sulfide. Tubergen, M. J.; Lavrich, R. J.; McCargar, J. W. December, 1637–1639.
Interpretation of the Second Virial Coefficient (re *J. Chem. Educ.* **1999**, *76*, 671–675). (LTE) Utgikar, V. November, 1409.
Interpretation of the Second Virial Coefficient (re *J. Chem. Educ.* **1999**, *76*, 671–675). (LTE) Wisniak, J. November, 1409.
Local Atmospheric Chemistry and Ozone Model (LACOM). (CBB) Pirjola, L. December, 1650–1652.
New Approach to Teaching Introductory Science: The Gas Module. Mills, P. A.; Sweeney, W. V.; Marino, R.; Clarkson, S. September, 1161–1165.
News from Online: The Power of the Voice. (ROJ) Judd, C. S. March, 299–300.
Novel Experiment for Fast and Simple Determination of the Oxygen Content in the Air. (TD) Najdoski, M.; Petruševski, V. M. November, 1447–1448.
Paradoxes, Puzzles, and Pitfalls of Incomplete Combustion Demonstrations. Vitz, E. August, 1011–1013.
Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) Cortón, E.; Kocmur, S.; Haim, L.; Galagovsky, L. September, 1188–1190.
Solid $NaHSO_3$ Does Not Exist (re *J. Chem. Educ.* **1998**, *75*, 1581–1582). (LTE) Tudela, D. July, 830.
Students as Solids, Liquids, and Gases. (AA) Ramasami, P. April, 485.
Thermodynamics of Mixing Real Gases. Sattar, S. October, 1361–1365.
Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. (CER) Sanger, M. J.; Phelps, A. J.; Fienhold, J. November, 1517–1520.
Vibrational Spectra and Heat Capacity of Methane, and the Speed of Sound. Tennis, R.; Bailey, R.; Henderson, G. December, 1634–1636.

General Chemistry

Analytical Chemistry: A Literary Approach. Lucy, C. A. April, 459–470.
"The Chemicals Project": Connecting General Chemistry to Students' Lives. Stout, R. P. October, 1301–1302.
Closer Look at Phase Diagrams for the General Chemistry Course. Gramsch, S. A. June, 718–723.
Combustion Demonstration Using Updated Flame Tornado. (TD) Senkbeil, E. G. November, 1449–1450.
Comparative Study of Microscale and Standard Burets. (ML) Singh, M. M.; McGowan, C. B.; Szafran, Z.; Pike, R. M. May, 625–626.
Correctly Expressing Atomic Weights. Paolini, M.; Cercignani, G.; Bauer, C. November, 1438–1439.
Cost of Converting a Gasoline-Powered Vehicle to Propane. A Practical Review Problem for Senior High School or Introductory Chemistry. (2AP) Jansen, M. P. December, 1578–1579.
Crystallization from a Supersaturated Solution of Sodium Acetate. (OPD) Ahmad, J. November, 1446.
Cubic Unit Cell Construction Kit. (CET) Mattson, B. May, 622–623.
Determination of K_{sp}, ΔG°, ΔH°, and ΔS° for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. Euler, W. B.; Kirschenbaum, L. J.; Ruekberg, B. August, 1039–1040.
Doing Science and Asking Questions: An Interactive Exercise. Middlecamp, C. H.; Nickel, A. L. January, 50–52.
Easy Derivation of pH = $(pK_{a_1} + pK_{a_2})/2$ Using Autoprotolysis of HA^-: Doubtful Value of the Supposedly More Rigorous Equation. Hawkes, S. J. September, 1183–1184.
Electrical Deflection of Polar Liquid Streams: A Misunderstood Demonstration. Ziaei-Moayyed, M.; Goodman, E.; Williams, P. November, 1520–1524.
Encouraging Meaningful Quantitative Problem Solving. Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. September, 1166–1173.
Final Exam Review Activity Based on the Jeopardy Format. Keck, M. V. April, 483.
General Chemistry Collection for Students, 4th Edition. (JCE Software) July, 934–936.
General Chemistry Multimedia Problems. (JCE Software) Whisnant, D. M. October, 1375–1376.
Glass Doesn't Flow and Doesn't Crystallize and It Isn't a Liquid. Hawkes, S. J. July, 846–848.
Hand-Held Conductivity Meter and Probe for Small Volumes and Field Work. (CET) Ganong, B. R. December, 1606–1608.
INQUAL-S. (JCE Software) Bendall, V. I.; Johnson, S. July, 936.
Integrated Lecture–Laboratory Environment for General Chemistry. Bailey, C.; Kingsbury, K.; Kulinowski, K.; Paradis, J.; Schoonover, R. February, 195–199.
Integrating the General Chemistry and General Biology Curriculum. (2YC$_3$) Barreto, J. C. December, 1548.
Interview with Alex H. Johnstone. Cardellini, L. December, 1571–1573.
Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. (ST) Miller, G. J.; Heideman, S. A.; Greenbowe, T. J. September, 1185–1187.
Introductory Laboratory Exercise on Solution Preparation: A Rewarding Experience. Wang, M. R. February, 249–250.
Kixium Monolayers: A Simple Alternative to the Bubble Raft Model for Close-Packed Spheres. (TD) Dungey, K. E. May, 618–619.
Lessons for Introductory Chemistry. (JCE Software) Martin, J. S.; Blackburn, E. V. July, 935–936.
Let's Talk about It! Using a Graded Discussion Procedure to Make Chemistry Real. (VIEW) Roediger, A. October, 1305–1306.
Life before and after Computers in General Chemistry Laboratory. Jones, R. B. August, 1085–1087.
MATCH Program: A Preparatory Chemistry and Intermediate Algebra Curriculum. (CCD) Wink, D. J.; Gislason, S. F.; McNicholas, S. D.; Zusman, B. J.; Mebane, R. C. August, 999–1000.
Measuring Soil Phosphates Using Ion-Exchange Resins. A Final Project for Freshman Chemistry. Storer, D. A.; Sarquis, A. M. June, 748–749.
Mission Statement for Chemical Principles Revisited. (CPR) Kilner, C. June, 679.
New Approach to Teaching Introductory Science: The Gas Module. Mills, P. A.; Sweeney, W. V.; Marino, R.; Clarkson, S. September, 1161–1165.
No, the Molecular Mass of Bromobenzene Is Not 157 amu: An Exercise in Mass Spectrometry and Isotopes for Early General Chemistry. Schildcrout, S. M. November, 1433–1434.
Paradoxes, Puzzles, and Pitfalls of Incomplete Combustion Demonstrations. Vitz, E. August, 1011–1013.
Philosophy of Chemistry—A New Interdisciplinary Field? (IC) Scerri, E. R. April, 522–525.
Phthalocyanine Synthesis Group Project for General Chemistry. MacFarland, D. K.; Hardin, C. M.; Lowe, M. J. November, 1484–1485.
Preparation and Analysis of Multiple Hydrates of Simple Salts. Schaeffer, R. W.; Chan, B. C.; Marshall, S. R.; Blasiole, B.; Khan, N.; Yoder, K. L.; Trainer, M. E.; Yoder, C. H. April, 509–510.
Process Workshops—A New Model for Instruction. Hanson, D. M.; Wolfskill, T. January, 120–130.
Quantifying Molecular Character. Nelson, P. G. February, 245–248.
Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) Johnson, K. November, 1451–1452.
Simple Protein Purification and Folding Experiment for General Chemistry Laboratory. Bowen, R.; Hartung, R.; Gindt, Y. M. November, 1456–1457.
Simulating Dynamic Equilibria. A Class Experiment. (OPD) Harrison, J. A.; Buckley, P. D. August, 1013–1014.
Teflon Tape—The Leaky Buret Remedy. Boshco, B. C.; Griffin, J. J. October, 1342.
To the Front of the Class. Wheeler, D. E. November, 1440.
Understanding Electrochemical Thermodynamics through Entropy Analysis. (SSC) Bindel, T. H. August, 1031–1034.
Using a Computer Animation to Improve Students' Conceptual Understanding of a Can-Crushing Demonstration. (CER) Sanger, M. J.; Phelps, A. J.; Fienhold, J. November, 1517–1520.
Using Particulate Drawings to Determine and Improve Students' Conceptions of Pure Substances and Mixtures. (CER) Sanger, M. J. June, 762–766.
Using Poster Sessions as an Alternative to Written Examinations—The Poster Exam. Mills, P. A.; Sweeney, W. V.; DeMeo, S.; Marino, R.; Clarkson, S. September, 1158–1161.
Visual Aid in Enthalpy Calculations. Canagaratna, S. G. September, 1178–1179.
What Chemistry to Teach Engineers? Hawkes, S. J. March, 321–326.
When A + B ⇌ B + A. (TD) Antony, E.; Mitchell, L.; Nettenstrom, L. September, 1180–1181.

Geochemistry

Chemical–Medical Mystery: Gold Jewelry and Black Marks on Skin. (AA) Kebbekus, B. B. October, 1298–1299.
Climate Change and Its Effect on Coral Reefs. Weston, R. E. December, 1574–1577.
Glass Doesn't Flow and Doesn't Crystallize and It Isn't a Liquid. Hawkes, S. J. July, 846–848.

Germanium

Self-Assembly of Microporous Thiogermanate Frameworks. MacLachlan, M. J.; Scott, R. W.; Ozin, G. A.; McIntosh, D. F. May, 630–632.

Gold

Chemical–Medical Mystery: Gold Jewelry and Black Marks on Skin. (AA) Kebbekus, B. B. October, 1298–1299.

Graduate Education/Research

Chemical Education in Countries of the Former Soviet Union. (ECSA) Kozliak, E. I. July, 870–875.
Graduate-Level Course for Successful Class Strategies: Preparing Graduate Students for the Next Step. Mazlo, J.; Kelter, P. B. September, 1175–1177.

Green Chemistry

Cost of Converting a Gasoline-Powered Vehicle to Propane. A Practical Review Problem for Senior High School or Introductory Chemistry. (2AP) Jansen, M. P. December, 1578–1579.
Green Chemistry and Education. Hjeresen, D. L.; Schutt, D. L.; Boese, J. M. December, 1543–1547.
Green Chemistry in the Organic Teaching Laboratory: An Environmentally Benign Synthesis of Adipic Acid. Reed, S. M.; Hutchison, J. E. December, 1627–1629.

Group Theory

Application of the Correlation Method to Vibrational Spectra of C_{60} and Other Fullerenes: Predicting the Number of IR- and Raman-Active Bands. Nakamoto, K.; McKinney, M. A. June, 775–780.
Crystallography Collection. (JCE Software) September, 1246–1248.
Infrared Spectrum and Group Theoretical Analysis of the Vibrational Modes of Carbonyl Sulfide. Tubergen, M. J.; Lavrich, R. J.; McCargar, J. W. December, 1637–1639.
Point Group I, II, and III. (JCE Software) Kastner, M. E.; Leary, P.; Grieves, J.; DiMarco, K.; Braun, J. September, 1246–1247.
Pólya's Isomer Enumeration Method: A Unique Exercise in Group Theory and Combinatorial Analysis for Undergraduates. Pevac, S.; Crundwell, G. October, 1358–1360.

History/Philosophy

1999 Nobel Prize in Chemistry. January, 14–15.
Ancient Recipes. (FPI) Williams, K. R. March, 300–301.
Anniversaries: 2000. Schatz, P. F. January, 11–14.
Artificial Glass—The Versatility of Poly(methyl methacrylate) from Its Early Exploitation to the New Millennium. (POC) Chisholm, M. S. July, 841–845.
Atomic Emission Spectroscopy—It Lasts and Lasts and Lasts. (Waters) Hieftje, G. M. May, 577–583.
Boerhaave on Fire. Diemente, D. January, 42–47.
Brief History of Atomic Emission Spectrochemical Analysis, 1666–1950. (Waters) Jarrell, R. F. May, 573–576.
Burning Issue. (FPI) Williams, K. R. May, 558–559.
Chemist Doing Library Research—AD 2000. (FPI) Drum, C.; Ashcraft, J. January, 23–24.
Climate Change—Scientific and Political. (Editorial) Moore, J. W. August, 943.

Discovery and Early Uses of Iodine. Rosenfeld, L. August, 984–987.
Ernest Rutherford, Avogadro's Number, and Chemical Kinetics Revisited (re *J. Chem. Educ.* **1998**, *75*, 998–1003). (LTE) Sturm, J. E. October, 1278–1279.
Especially for High School Teachers. Howell, J. E. January, 9.
Every Year Begins a Millennium. 2000 George C. Pimentel Award. (Award Address) Bell, J. A. September, 1098–1104.
Exploring Invisible Frontiers. (Editorial) Moore, J. W. September, 1095.
From Past Issues: Contests Revisited (re *J. Chem. Educ.* **1999**, *76*, 1476). (LTE) Metanomski, W. V. March, 310.
Fulminic Acid in the History of Organic Chemistry. Kurzer, F. July, 851–857.
Glass–Sand + Imagination. Kolb, K.; Kolb, D. July, 812–816.
Have Orbitals Really Been Observed? Scerri, E. R. November, 1492–1494.
History of Thermo Jarrell Ash Corporation and Spectroscopist Richard F. Jarrell. (Waters) Jarrell, R. F.; Brech, F.; Gustafson, M. J. May, 592–598.
How Does One Become a Chemist? (FPI) Barón, M. July, 817.
Inductively Coupled Plasma–Mass Spectrometry and the European Discovery of America. (Waters) Houk, R. S. May, 598–607.
Influence of Solidification Techniques on the History of Material Culture. (POC) Shank, N. E. September, 1133–1137.
Input Requested for a History of the Division of Chemical Education. Lagowski, J. J. March, 296.
Interview with Alex H. Johnstone. Cardellini, L. December, 1571–1573.
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Lessons for the 21st Century. 1999 James Flack Norris Award. (Award Address) Lagowski, J. J. July, 818–823.
Let It Snow! (FPI) Williams, K. R. February, 148–149.
Let's Not Forget the Units! (re *J. Chem. Educ.* **1999**, *76*, 313–314). (LTE) Hillger, D. March, 310.
Living Periodic Table. Marshall, J. L. August, 979–983.
Melting Point and Molecular Symmetry. Brown, R. J.; Brown, R. F. June, 724–731.
More about A Living Periodic Table (re *J. Chem. Educ.* **2000**, *77*, cover). (LTE) Marshall, J. L. September, 1119.
Old Friends: Slide Rules and Such. (FPI) Williams, K. R. April, 436–437.
Organic Acids without a Carboxylic Acid Functional Group. Perez, G. V.; Perez, A. L. July, 910–915.
Philosophy of Chemistry—A New Interdisciplinary Field? (IC) Scerri, E. R. April, 522–525.
Proposed Methodological Improvement in the Elucidation of Chemical Reaction Mechanisms Based on Chemist–Computer Interaction. Zeigarnik, A. V.; Valdés-Pérez, R. E.; White, B. S. February, 214–218.
Refrigeration—From Ice Man to Ozone Hole. (FPI) Williams, K. R. December, 1540–1541.
Story of the Wagner–Meerwein Rearrangement. Birladeanu, L. July, 858–863.
Student/Teacher. Zare, B. October, 1275.
Summer Reading. Kovac, J. D.; Pagni, R.; Harris, H. H.; Coppola, B. P. June, 693–696.
What's in a Name? de Levie, R. May, 610–612.

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Artificial Glass—The Versatility of Poly(methyl methacrylate) from Its Early Exploitation to the New Millennium. (POC) Chisholm, M. S. July, 841–845.
Short, One-Pot Synthesis of Bupropion (Zyban®, Wellbutrin. Perrine, D. M.; Ross, J. T.; Nervi, S. J.; Zimmerman, R. H. November, 1479–1480.

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Advanced Chemistry Collection. (JCE Software) November, 1526–1528.
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Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) Volkovich, V. A.; Griffiths, T. R. February, 177.
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Metallurgy in the Laboratory: Preparation of Pure Antimony. O'Klatner, B. L.; Rabinovich, D. February, 251–252.
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Self-Assembly of Microporous Thiogermanate Frameworks. MacLachlan, M. J.; Scott, R. W.; Ozin, G. A.; McIntosh, D. F. May, 630–632.
Should Gaseous BF_3 and SiF_4 Be Described as Ionic Compounds? Haaland, A.; Helgaker, T. U.; Ruud, K.; Shorokhov, D. J. August, 1076–1080.
Simplified Mathematical Model for Calculating the Lattice Energies of Binary Group I and Group II Ionic Compounds: Using Solver to Estimate the Empirical Constants. (CBB) Carter, A. August, 1081–1084.
Thermodynamics and Kinetics of "HeaterMeals". An Exercise in Undergraduate Inorganic Chemistry. Jensen, W. B. June, 713–717.
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Using Sol-Gel Chemistry to Synthesize a Material with Properties Suited for Chemical Sensing. Development and Implementation of a Materials Science Experiment for the Undergraduate Curriculum. Laughlin, J. B.; Sarquis, J. L.; Jones, V. M.; Cox, J. A. January, 77–79.
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Preparation of *nido*-Carborane Derivatives: Variation of the $^{31}P\{^1H\}$ NMR Pattern by Changing the Coordinating Ligand. A Microscale Laboratory. (ML) Crespo, O.; Gimeno, M. C.; Laguna, A. January, 86–88.
Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. Clareen, S. S.; Marshall, S. R.; Price, K. E.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. July, 904.
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Epoxide Chemistry: Guided Inquiry Experiment Emphasizing Structure Determination and Mechanism. Krishnamurty, H. G.; Jain, N.; Samby, K. April, 511–513.
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Measuring Soil Phosphates Using Ion-Exchange Resins. A Final Project for Freshman Chemistry. Storer, D. A.; Sarquis, A. M. June, 748–749.
Microscale Oxidation Puzzle. (ML) Pelter, M. W.; Macudzinski, R. M.; Passarelli, M. E. November, 1481.
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More Than Meets the Eye: Nonvisual Observations in Chemistry. (JCE Activity) JCE Editorial Staff. September, 1104.
New Approach to Teaching Introductory Science: The Gas Module. Mills, P. A.; Sweeney, W. V.; Marino, R.; Clarkson, S. September, 1161–1165.
Novel High School Chemistry Camp as an Outreach Model for Regional Colleges and Universities. Exstrom, C. L.; Mosher, M. D. October, 1295–1297.
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Probing the Active Site of Yeast Alcohol Dehydrogenase through Microscale Yeast-Mediated Reductions of Acetophenone and Acetylpyridines. A Collaborative and Research-Based Advanced Bioorganic Chemistry Laboratory Project. (ML) Lee, M.; Azbell, J.; Carnahan, M.; Cox, K.; Espinosa, J.; Feaster, R.; Hirsch, R.; Lam, A.; Roller, S.; Steadman, B.; Toth, J. March, 363–365.
Role-Playing in Analytical Chemistry: The Alumni Speak. Jackson, P. T.; Walters, J. P. August, 1019–1025.

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Undergraduate Research Summer Fellowships Undergo Change. (CUR) Elgren, T. E. September, 1113.
Understanding the Greenhouse Effect: Is Global Warming Real? An Integrated Lab–Lecture Exercise for Nonscience Majors. (TPCS) Dunnivant, F. M.; Moore, A.; Alfano, M. J.; Brzenk, R.; Buckley, P. T.; Newman, M. E. December, 1602–1603.
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Analysis of Common Household Cleaner–Disinfectants by Capillary Electrophoresis. (TICI) Gardner, W. P.; Girard, J. E. October, 1335–1338.
Analysis of Diet Tonic Water Using Capillary Electrophoresis. An Undergraduate Instrumental Analysis Experiment. Herman, H. B.; Jezorek, J. R.; Tang, Z. June, 743–744.
Applications of a U.S. EPA–Approved Method for Fluoride Determination in an Environmental Chemistry Laboratory: Fluoride Detection in Drinking Water. Rum, G.; Lee, W. Y.; Gardea-Torresdey, J. December, 1604–1606.
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Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. Hickman, A. B.; Helburn, R. S.; Delinger, W. G. February, 255–257.
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Separation and Quantification of Preservatives Using Ion Pair HPLC and CZE. An Extended Investigation of Separation Mechanisms. (TICI) Boyce, M.; Spickett, E. June, 740–742.
Simple and Inexpensive Classroom Demonstrations of Nuclear Magnetic Resonance and Magnetic Resonance Imaging. (TD) Olson, J. A.; Nordell, K. J.; Chesnik, M. A.; Landis, C. R.; Ellis, A. B.; Rzchowski, M. S.; Condren, S. M.; Lisensky, G. C. July, 882–889.
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News from Online: Learning Communities. (ROJ) Judd, C. S. July, 808–809.
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NSF Web Site Information on New and Continuing Programs in Science Education. Wink, D. J. April, 443.
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Online Resources for High School Teachers—A CLIC Away. (JCE Online) Holmes, J. L. April, 536.
Organic Chemistry and the Internet: A Web-Based Approach to Homework and Testing Using the WE_LEARN System. (TECH) Penn, J. H.; Nedeff, V. M.; Gozdzik, G. February, 227–231.
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Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558. (LTE) Paiva, J. C.; Gil, V. M. December, 1560.
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Let's Talk about It! Using a Graded Discussion Procedure to Make Chemistry Real. (VIEW) Roediger, A. October, 1305–1306.
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Teflon Tape—The Leaky Buret Remedy. Boshco, B. C.; Griffin, J. J. October, 1342.
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Thermodynamics of Water Superheated in the Microwave Oven. (TD) Erné, B. H. October, 1309–1310.
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Turbulent Motion in Ethyl Acetate–Water System. (OPD) Ahmad, J. September, 1182–1183.
Two Faces of Alkaloids. Dostál, J. August, 993–998.
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Discovery and Early Uses of Iodine. Rosenfeld, L. August, 984–987.
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Application of Electrodialysis to Desalting an Amino Acid Solution. García-García, V.; Montiel, V.; González-García, J.; Expósito, E.; Iniesta, J.; Bonete, P.; Inglés, M. November, 1477–1479.
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Studying Thermally Induced Chemical and Physical Transformations in Common Synthetic Polymers. A Laboratory Project. Hodgson, S. C.; Orbell, J. D.; Bigger, S. W.; Scheirs, J. June, 745–747.
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Iron

Teaching Sample Preparation in the Undergraduate Laboratory. Goltz, D. M.; Hall, T.; Grant, A. S.; Segstro, E. November, 1486–1488.

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Gaseous-Ion Fragmentation Mechanisms in Chlorobenzenes by GC/MS and GC/MS/MS: A Physical-Chemical Approach for Undergraduates. Schildcrout, S. M. April, 501–502.
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Fizzy Drinks: Stoichiometry You Can Taste. (JCE Activity) Rohrig, B. December, 1608.
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Advanced Chemistry Collection. (JCE Software) November, 1526–1528.
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Crystallographic CourseWare. (JCE Software) Kastner, M. E.; Vasbinder, E.; Kowalcyzk, D.; Jackson, S.; Giammalvo, J.; Braun, J.; DiMarco, K. September, 1247–1248.
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General Chemistry Collection for Students, 4th Edition. (JCE Software) July, 934–936.
General Chemistry Multimedia Problems. (JCE Software) Whisnant, D. M. October, 1375–1376.
INQUAL-S. (JCE Software) Bendall, V. I.; Johnson, S. July, 936.
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Lessons for Introductory Chemistry. (JCE Software) Martin, J. S.; Blackburn, E. V. July, 935–936.
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Maintaining Intellectual Infrastructure. (Editorial) Moore, J. W. March, 279.
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To Stretch and Search for Better Ways. (Editorial) Moore, J. W. June, 677.

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Analysis of First-Order Kinetics Using Microsoft Excel Solver. (CBB) Denton, P. November, 1524–1525.
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Approaching Equilibrium in the N_2O_4–NO_2 System: A Common Mistake in Textbooks. Leenson, I. A. December, 1652–1655.
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Chemical Actinometry: Using *o*-Nitrobenzaldehyde to Measure Lamp Intensity in Photochemical Experiments. Willett, K. L.; Hites, R. A. July, 900–902.
Comparisons and Demonstrations of Scientific Calculators. (CBB) Kim, M.; Ly, S.; Hong, T. October, 1367–1370.
Dediazoniations in Water: An Integrated Physical Organic Chemistry Experiment. Costas-Costas, U.; Pazo-LLorente, R.; González-Romero, E.; Bravo-Díaz, C. March, 384–386.
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Luminescence Quenching in Microemulsion Studies. Mays, H. January, 72–76.
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Modeling Chemical Processes in Seawater Aquaria to Illustrate Concepts in Undergraduate Chemistry. Grguric, G. April, 495–498.
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Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) Johnson, K. November, 1451–1452.
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Stochastics, the Basis of Chemical Dynamics. de Levie, R. June, 771–774.
Understanding Enzyme Inhibition. Ochs, R. S. November, 1453–1456.
Using Computer Assisted Learning to Teach Molecular Reaction Dynamics. (TECH) Reid, K. L.; Wheatley, R. J.; Horton, J. C.; Brydges, S. W. March, 407–409.

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Analysis of Vibrational Spectrum of a Linear Molecule. (MCAD) Schwenz, R. W.; Polik, W. F.; Young, S. May, 670.
Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. Hickman, A. B.; Helburn, R. S.; Delinger, W. G. February, 255–257.
Calibration of Frequency Data Collection Systems Using Shortwave Radio Signals. (CBB) Estler, R. C. September, 1244–1245.
Determination of the Active Principle in a Syrup by

Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. Ribone, M. E.; Pagani, A. P.; Olivieri, A. C.; Goicoechea, H. C. October, 1330–1333.
Discovery Approach to NMR: Development of Chemical-Shift Additivity Tables and Application to Product Identification. Bosch, E. July, 890–892.
Error Analysis Using the Variance–Covariance Matrix. (CBB) Salter, C. September, 1239–1243.
Inexpensive Commercially Available Analog-to-Digital Converter. Breton, G. W. February, 262.
Integrated Lecture–Laboratory Environment for General Chemistry. Bailey, C.; Kingsbury, K.; Kulinowski, K.; Paradis, J.; Schoonover, R. February, 195–199.
Linear Least-Squares Regression. (MCAD) Young, S.; Wierzbicki, A. May, 669.
Non-Linear Least-Squares Regression. (MCAD) Young, S.; Wierzbicki, A. May, 669–670.
Nonlinear Least-Squares Using Microcomputer Data Analysis Programs: KaleidaGraph™ in the Physical Chemistry Teaching Laboratory. (CBB) Tellinghuisen, J. September, 1233–1239.
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Symbolic Software in the Chemistry Curriculum. (MCAD) Zielinski, T. J. May, 668.

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Atomic Emission Spectroscopy—It Lasts and Lasts and Lasts. (Waters) Hieftje, G. M. May, 577–583.
Burning Issue. (FPI) Williams, K. R. May, 558–559.
Calculator-Based Instrumentation: The Design of a Digital Interface Based on I^2C Technology. Hickman, A. B.; Helburn, R. S.; Delinger, W. G. February, 255–257.
Comparative Study of Microscale and Standard Burets. (ML) Singh, M. M.; McGowan, C. B.; Szafran, Z.; Pike, R. M. May, 625–626.
Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. Kabza, K. G.; Gestwicki, J. E.; McGrath, J. L. January, 63–65.
Development of Innovative Laboratory Experiments with UV-Visible Spectrophotometer. (NSF) Iyere, P. A. February, 153–154.
Dry-Ice Bath Based on Ethylene Glycol Mixtures. (CET) Lee, D. W.; Jensen, C. M. May, 629.
Easy-to-Make Ag/AgCl Reference Electrode. (CET) East, G. A.; del Valle, M. A. January, 97.
Effective, Safe, and Inexpensive Microscale Ultrasonic Setup for Teaching and Research Laboratories. (CET) Montaña, Á. M.; Grima, P. M. June, 754–757.
EPR Experiment for the Undergraduate Physical Chemistry Laboratory. Butera, R. A.; Waldeck, D. H. November, 1489–1491.
Evaporation Kinetics in Short-Chain Alcohols by Optical Interference. Rosbrugh, I. M.; Nishimura, S. Y.; Nishimura, A. M. August, 1047–1049.
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In Praise of Latex Gloves. (CET) Arnáiz, F. J. October, 1354.
Inductively Coupled Plasma–Mass Spectrometry and the European Discovery of America. (Waters) Houk, R. S. May, 598–607.
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Inexpensive Convenient Press for KBr and CsI Pellets in Infrared Studies. (CET) Kalberg, C.; Ogren, P. J. March, 391–392.
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Inexpensive Gradient Maker for the Biochemistry Laboratory. (CET) Flurkey, B. August, 1041.
Inexpensive Pipet or Buret Jar and Washer. (CET) Brouwer, H. February, 254.
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Low-Cost Device for Automatic Photometric Titrations. Rocha, F. R.; Reis, B. F. February, 258–261.
Organic Chemistry in Capillaries. (ML) Mahamulkar, B. G.; Dhavale, D. D.; Kelkar, S. L. March, 387–388.
Rapid, Simple Quantitation in Thin-Layer Chromatography Using a Flatbed Scanner. Johnson, M. E. March, 368–372.
Role of Automated Instrumentation in Undergraduate Chemistry. (TICI) Bell, S. C. December, 1624–1626.
Simple Hanging Mercury Drop Electrode. (CET) Bănică, F. G. January, 98–100.
Simple Laboratory-Constructed Automatic Titrator. Headrick, K. L.; Davies, T. K.; Haegele, A. N. March, 389–390.
Student-Determined Values for the Calculation of Chemical Shifts of Methylene Protons in Different Chemical Environments. Breton, G. W. January, 81–83.
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Ten-Dollar Stirring Device for the Microscale Laboratory. (CET) Willemsen, J. J. November, 1476.
Ultramicro-Boiling-Point Determination—A Modification. (ML) Brouwer, H. November, 1480.
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Acid–Base Titration of (*S*)-Aspartic Acid: A Circular Dichroism Spectrophotometry Experiment. Cavaleiro, A. M.; de Jesus, J. D. September, 1218–1220.
Analysis of Common Household Cleaner–Disinfectants by Capillary Electrophoresis. (TICI) Gardner, W. P.; Girard, J. E. October, 1335–1338.
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Easy and Fast Experiment for the Determination of the Equilibrium Constants of an Acid–Base Pair, Free and Complexed with a Molecular Receptor. Junquera, E.; Aicart, E. September, 1215–1217.
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Using Microorganisms in Synthetic Organic Chemistry. (POC) Roberts, S. M. March, 344–348.
Visible Aromatic Electronic Effects Using a Series of Substituted Copper Phthalocyanines. MacFarland, D. K.; Lieb, S. D.; Oswald, J. L. November, 1482–1483.

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Displacement of the Benzene Solvent Molecule from $Cr(CO)_3$(benzene) by Piperidine: A Laser Flash Photolysis Experiment. (ACL) Bengali, A. A.; Charlton, S. B. October, 1348–1351.
Examination of Electron Transfer Self-Exchange Rates Using NMR Line-Broadening Techniques: An Advanced Physical Inorganic Laboratory Experiment. Jameson, D. L.; Anand, R. January, 88–89.
Introduction to Homogeneous Catalysis: Carbon–Carbon Bond Formation Catalyzed by a Defined Palladium Complex. Herrmann, W. A.; Böhm, V. P.; Reisinger, C. January, 92–95.
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Interactive Nano-Visualization of Materials over the Internet. (NSF) Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. September, 1114–1115.
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Crystallization from a Supersaturated Solution of Sodium Acetate. (OPD) Ahmad, J. November, 1446.
Illustrating the Properties of Magic Sand. (OPD) Goldsmith, R. H. January, 41.
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Turbulent Motion in Ethyl Acetate–Water System. (OPD) Ahmad, J. September, 1182–1183.

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Spectroscopy of Flames: Luminescence Spectra of Reactive Intermediates. Kvaran, Á.; Haraldsson, Á. H.; Sigfusson, T. I. October, 1345–1347.

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Heck Reaction: A Microscale Synthesis Using a Palladium Catalyst. (ML) Martin, W. B.; Kateley, L. J. June, 757–759.
Introduction to Homogeneous Catalysis: Carbon–Carbon Bond Formation Catalyzed by a Defined Palladium Complex. Herrmann, W. A.; Böhm, V. P.; Reisinger, C. January, 92–95.

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Periodic Patterns. Rayner-Canham, G. August, 1053–1056.
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Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. Dopke, N. C.; Treichel, P. M.; Vestling, M. M. August, 1065–1069.

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Closer Look at Phase Diagrams for the General Chemistry Course. Gramsch, S. A. June, 718–723.
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Spectroscopic Determination of Ternary Phase Diagrams. (NSF) Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. June, 701–703.
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Thermodynamics of Water Superheated in the Microwave Oven. (TD) Erné, B. H. October, 1309–1310.
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Chemical Actinometry: Using *o*-Nitrobenzaldehyde to Measure Lamp Intensity in Photochemical Experiments. Willett, K. L.; Hites, R. A. July, 900–902.
Cornell College Students Achieve the Highly Improbable. Ault, A. November, 1386–1387.
Displacement of the Benzene Solvent Molecule from $Cr(CO)_3$(benzene) by Piperidine: A Laser Flash Photolysis Experiment. (ACL) Bengali, A. A.; Charlton, S. B. October, 1348–1351.
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Practical Exercise for Photochemistry and Photobiology: Production of Hydrogen Peroxide. Gallardo, F.; Gálvez, S.; Medina, M. A.; Heredia, A.; Gómez-Moreno, C. March, 375–377.

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Abnormal Decomposition Potentials Reconsidered—A Corrected Treatment. Zoski, C. G.; Bard, A. J. April, 526–527.
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M. E.; Vasbinder, E.; Kowalcyzk, D.; Jackson, S.; Giammalvo, J.; Braun, J.; DiMarco, K. September, 1247–1248.
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Illustration of Multistability. Schmitz, G.; Kolar-Anič, L.; Anič, S.; Čupić, Ž. November, 1502–1505.
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Kinetics of Reduction of Toluidine Blue with Sulfite—Kinetic Salt Effect in Elucidation of Mechanism. Jonnalagadda, S. B.; Gollapalli, N. R. April, 506–509.
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Orbital Plots Using Gnuplot. (CBB) Moore, B. G. June, 785–789.
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Spectroscopic Determination of Ternary Phase Diagrams. (NSF) Karukstis, K. K.; Avrantinis, S. K.; Boegeman, S. L.; Conner, J. N.; Hackman, B. M.; Lindsay, J. M.; Mandel, A. L.; Miller, E. J. June, 701–703.
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Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. Keszei, E.; Takács, M. G.; Vizkeleti, B. July, 927–928.
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Theoretical Concepts and Applications of a Rotating Disk Electrode. Nikolic, J.; Expósito, E.; Iniesta, J.; González-García, J.; Montiel, V. September, 1191–1194.
Thermodynamic Analysis to Explain the Boiling-Point Isotope Effect for Molecular Hydrogen. Baker, D. B.; Christmas, B. K. June, 732–734.
Thermodynamics of Mixing Real Gases. Sattar, S. October, 1361–1365.
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Artificial Glass—The Versatility of Poly(methyl methacrylate) from Its Early Exploitation to the New Millennium. (POC) Chisholm, M. S. July, 841–845.
Demonstration of Surface Tension and Contact Angle. (TD) Gesser, H. D. January, 58–59.
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Introductory Polymer Chemistry Course for Plastics Technology Students. (CBB) Chisholm, M. G.; Koch, P. E. September, 1147–1151.
Polymer Nanocomposition Approach to Advanced Materials. (POC) Oriakhi, C. O. September, 1138–1146.
Solvent Swelling and Optical Rotation Demonstrated on the Overhead Projector. (OPD) Campbell, D. J.; Rupe, S. B. July, 876–878.
Use of a Dynamic Headspace GC–MS Method for the Study of Volatile Organic Compounds in Polyethylene Packaging. An Undergraduate Experiment in Polymer Analysis. Hodgson, S. C.; Casey, R. J.; Orbell, J. D.; Bigger, S. W. December, 1631–1633.

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Bromination, Elimination, and Polymerization: A 3-Step Sequence for the Preparation of Polystyrene from Ethylbenzene. Sanford, E. M.; Hermann, H. L. October, 1343–1344.
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Studying Thermally Induced Chemical and Physical Transformations in Common Synthetic Polymers. A Laboratory Project. Hodgson, S. C.; Orbell, J. D.; Bigger, S. W.; Scheirs, J. June, 745–747.

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Approaching Equilibrium in the N_2O_4–NO_2 System: A Common Mistake in Textbooks. Leenson, I. A. December, 1652–1655.
"The Chemicals Project": Connecting General Chemistry to Students' Lives. Stout, R. P. October, 1301–1302.
Classroom Exercise in Sampling Technique. (TD) Ross, M. R. August, 1015–1016.
Conformer Hunting: An Open-Ended Computational Chemistry Exercise That Expresses Real-World Complexity and Student Forethought. (CBB) Lipkowitz, K. B.; Robertson, D. February, 206–209.
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Encouraging Meaningful Quantitative Problem Solving. Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. September, 1166–1173.
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Everyday Chemical Reactions: A Writing Assignment to Promote Synthesis of Concepts and Relevance in Chemistry. Parrill, A. L. October, 1303–1305.
Experimentation and Group Discussion as a Means of Determining Solubility Rules. Stevens, K. E. March, 327–328.
General Chemistry Multimedia Problems. (JCE Software) Whisnant, D. M. October, 1375–1376.
In-Class Experiment to Illustrate the Importance of Sampling Techniques and Statistical Analysis of Data to Quantitative Analysis Students. (TD) Hartman, J. R. August, 1017–1018.
Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Mouriño, R. O.; Moura, G. C. February, 181–183.
Microscale Oxidation Puzzle. (ML) Pelter, M. W.; Macudzinski, R. M.; Passarelli, M. E. November, 1481.
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Motivating Students in Sophomore Organic Chemistry by Examining Nature's Way—Why Are Vitamins E and C Such Good Antioxidants? (re *J. Chem. Educ.* **1999**, *76*, 1108–1112). (Correction) Beaver, B. D. July, 830.
Role-Playing in Analytical Chemistry: The Alumni Speak. Jackson, P. T.; Walters, J. P. August, 1019–1025.
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Understanding the Greenhouse Effect: Is Global Warming Real? An Integrated Lab–Lecture Exercise for Nonscience Majors. (TPCS) Dunnivant, F. M.; Moore, A.; Alfano, M. J.; Brzenk, R.; Buckley, P. T.; Newman, M. E. December, 1602–1603.
Water: A Powerful Theme for an Interdisciplinary Course. Tabbutt, F. D. December, 1594–1601.
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Products of Chemistry

Artificial Glass—The Versatility of Poly(methyl methacrylate) from Its Early Exploitation to the New Millennium. (POC) Chisholm, M. S. July, 841–845.
Developing New Antibiotics with Combinatorial Biosynthesis. (POC) Pohl, N. L. November, 1421–1423.
Drug Metabolism: The Body's Defense against Chemical Attack. (POC) Stachulski, A. V.; Lennard, M. S. March, 349–353.
Influence of Solidification Techniques on the History of Material Culture. (POC) Shank, N. E. September, 1133–1137.
Organic Vapor Sensors for Food Quality Assessment. (POC) Honeybourne, C. L. March, 338–344.
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Proteins/Peptides

Biochemical Study of Noncovalent Forces in Proteins Using Phycocyanin from *Spirulina*. Heller, B. A.; Gindt, Y. M. November, 1458–1459.
Complete Analysis of a Biologically Active Tetrapeptide: A Project Utilizing Thin-Layer Chromatography and Tandem Quadrupole Mass Spectrometry. (ML) LeFevre, J. W.; Dodsworth, D. W. April, 503–504.
Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. Fenk, C. J.; Grooms, S. Y.; Gerbig, D. G. March, 373–374.
Immunoprecipitation of Serum Albumin with Protein A–Sepharose. A Biochemistry Laboratory Experiment. Bohinski, R. C. November, 1460–1462.
Inexpensive Gradient Maker for the Biochemistry Laboratory. (CET) Flurkey, B. August, 1041.
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Significant Figures, the Periodic Table, and Mass Spectrometry: The Challenge of Large Biomolecules. Dopke, N. C.; Treichel, P. M.; Vestling, M. M. August, 1065–1069.
Simple Method for Demonstrating Enzyme Kinetics Using Catalase from Beef Liver Extract. (TD) Johnson, K. November, 1451–1452.
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Ancient Recipes. (FPI) Williams, K. R. March, 300–301.
Anniversaries: 2000. Schatz, P. F. January, 11–14.
Aquarium as a Means for the Interdisciplinary Teaching of Chemistry. (SSC) Calascibetta, F.; Campanella, L.; Favero, G.; Nicoletti, L. October, 1311–1313.
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Chemical Adventures of Sherlock Holmes: The Ghost of Gordon Square. Waddell, T. G.; Rybolt, T. R. April, 471–474.
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"The Chemicals Project": Connecting General Chemistry to Students' Lives. Stout, R. P. October, 1301–1302.
Climate Change—Scientific and Political. (Editorial) Moore, J. W. August, 943.
Consumer Views on Chemical Additives: Are They Natural or Synthetic? A Non-Laboratory-Based Project. Cotterill, A. S.; John, D. N.; Teh, Y. S. October, 1307–1308.
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Drug Metabolism: The Body's Defense against Chemical Attack. (POC) Stachulski, A. V.; Lennard, M. S. March, 349–353.
Entertaining Chemistry—Two Colorful Reactions. (TD) Elsworth, J. F. April, 484–485.
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Exploring Washington, DC. Cohen, P. S.; Cohen, B. H. August, 961–964.
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Glass Doesn't Flow and Doesn't Crystallize and It Isn't a Liquid. Hawkes, S. J. July, 846–848.
Glass–Sand + Imagination. Kolb, K.; Kolb, D. July, 812–816.
How Does One Become a Chemist? (FPI) Barón, M. July, 817.
How to Present a Paper or Poster. Huddle, P. A. September, 1152–1153.
Influence of Solidification Techniques on the History of Material Culture. (POC) Shank, N. E. September, 1133–1137.
Interview with Alex H. Johnstone. Cardellini, L. December, 1571–1573.
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Let It Snow! (FPI) Williams, K. R. February, 148–149.
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Science Teacher: Summer 2000 Reading. (ROJ) Long, S. July, 825–826.
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Thermodynamics and Kinetics of "HeaterMeals". An Exercise in Undergraduate Inorganic Chemistry. Jensen, W. B. June, 713–717.
Two Faces of Alkaloids. Dostál, J. August, 993–998.
Using Microorganisms in Synthetic Organic Chemistry. (POC) Roberts, S. M. March, 344–348.
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INQUAL-S. (JCE Software) Bendall, V. I.; Johnson, S. July, 936.
Invention of the Annular Inductively Coupled Plasma as a Spectroscopic Source. (Waters) Greenfield, S. May, 584–591.
Novel Experiment for Fast and Simple Determination of the Oxygen Content in the Air. (TD) Najdoski, M.; Petruševski, V. M. November, 1447–1448.
Organic Chemistry in Capillaries. (ML) Mahamulkar, B. G.; Dhavale, D. D.; Kelkar, S. L. March, 387–388.
Use of a Dynamic Headspace GC–MS Method for the Study of Volatile Organic Compounds in Polyethylene Packaging. An Undergraduate Experiment in Polymer Analysis. Hodgson, S. C.; Casey, R. J.; Orbell, J. D.; Bigger, S. W. December, 1631–1633.

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Atomic Absorption Spectroscopy of Calcium in Foodstuffs in Non-Science-Major Courses. Kostecka, K. S. October, 1321–1323.
Atomic Emission Spectroscopy—It Lasts and Lasts and Lasts. (Waters) Hieftje, G. M. May, 577–583.
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Classroom Exercise in Sampling Technique. (TD) Ross, M. R. August, 1015–1016.

Comparative Study of Microscale and Standard Burets. (ML) Singh, M. M.; McGowan, C. B.; Szafran, Z.; Pike, R. M. May, 625–626.
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Implementation of Traditional and Real-World Cooperative Learning Techniques in Quantitative Analysis Including Near Infrared Spectroscopy for Analysis of Live Fish. Houghton, T. P.; Kalivas, J. H. October, 1314–1318.
In-Class Experiment to Illustrate the Importance of Sampling Techniques and Statistical Analysis of Data to Quantitative Analysis Students. (TD) Hartman, J. R. August, 1017–1018.
Invention of the Annular Inductively Coupled Plasma as a Spectroscopic Source. (Waters) Greenfield, S. May, 584–591.
Low-Cost Device for Automatic Photometric Titrations. Rocha, F. R.; Reis, B. F. February, 258–261.
More Pedagogically Sound Treatment of Beer's Law: A Derivation Based on a Corpuscular–Probability Model. Bare, W. D. July, 929–933.
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Simple Laboratory-Constructed Automatic Titrator. Headrick, K. L.; Davies, T. K.; Haegele, A. N. March, 389–390.
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Teaching Sample Preparation in the Undergraduate Laboratory. Goltz, D. M.; Hall, T.; Grant, A. S.; Segstro, E. November, 1486–1488.
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Cl_2O_4 in the Stratosphere: A Collaborative Computational Physical Chemistry Project. (CBB) Whisnant, D. M.; Lever, L. S.; Howe, J. J. December, 1648–1649.
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Comments on Kinetic, Potential, and Ionization Energies. (Commentary) Lowe, J. P. February, 155–156.
Cyclohexane: Boat Form Revisited. Sauers, R. R. March, 332.
Educational Applications of IR and Raman Spectroscopy: A Comparison of Experiment and Theory. McClain, B. L.; Clark, S. M.; Gabriel, R. L.; Ben-Amotz, D. May, 654–660.
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Ionization Energies, Parallel Spins, and the Stability of Half-Filled Shells. Cann, P. August, 1056–1061.
M&M® Superposition Principle. (TD) Miller, J. B. July, 879–881.
Moving Particles and Wave Packet Propagation: A Computer Animated Supplement. (JCE Online) Henderson, G. January, 134.
Numerical Evaluation of Energy Levels and Wave Functions for Hindered Internal Rotation. Ercolani, G. November, 1495–1502.
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Philosophy of Chemistry—A New Interdisciplinary Field? (IC) Scerri, E. R. April, 522–525.
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Ernest Rutherford, Avogadro's Number, and Chemical Kinetics Revisited (re *J. Chem. Educ.* **1998**, *75*, 998–1003). (LTE) Sturm, J. E. October, 1278–1279.

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Application of the Correlation Method to Vibrational Spectra of C_{60} and Other Fullerenes: Predicting the Number of IR- and Raman-Active Bands. Nakamoto, K.; McKinney, M. A. June, 775–780.
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Story of the Wagner–Meerwein Rearrangement. Birladeanu, L. July, 858–863.

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Abnormal Decomposition Potentials Reconsidered—A Corrected Treatment. Zoski, C. G.; Bard, A. J. April, 526–527.
Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. Halkides, C. J. November, 1428–1432.
Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) Volkovich, V. A.; Griffiths, T. R. February, 177.
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Examination of Electron Transfer Self-Exchange Rates Using NMR Line-Broadening Techniques: An Advanced Physical Inorganic Laboratory Experiment. Jameson, D. L.; Anand, R. January, 88–89.
Improvement of Sugar–Chlorate Rocket Demonstration. (TD) Eliason, R.; Lee, E. J.; Wakefield, D.; Bergren, A. December, 1581–1583.
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Vivid Demonstration of Dependence of Overvoltage on the Physical State of a Metal Deposited on the Electrode. (TD) Mardan, A.; Ajaz, R. December, 1580–1581.
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Hidden Insights in the Science Education Research Literature. (ROJ) Robinson, W. R. May, 556–557.
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Probability of Locating the Electron in a Hydrogen Atom. (RSA) Mak, T. C.; Li, W. April, 490–491.
Puzzle Concerning Solution Equilibria. (RSA) Gans, P. April, 489–490.

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Capsaicin Hazard (re *J. Chem. Educ.* **2000**, *77*, 266–267). (LTE) Jones, B. T. April, 444.
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Chemical Adventures of Sherlock Holmes: The Ghost of Gordon Square. Waddell, T. G.; Rybolt, T. R. April, 471–474.
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Cost of Converting a Gasoline-Powered Vehicle to Propane. A Practical Review Problem for Senior High School or Introductory Chemistry. (2AP) Jansen, M. P. December, 1578–1579.
Determination of the Fundamental Electronic Charge via the Electrolysis of Water. (2AP) Hoffman, B.; Mitchell, E.; Roulhac, P.; Thomes, M.; Stumpo, V. M. January, 95–96.
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Convenient and Highly Specific Western Blot Experiment for Introductory Biochemistry. Fenk, C. J.; Grooms, S. Y.; Gerbig, D. G. March, 373–374.
Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. Durieu, V.; Martiat, G.; Vandergeten, M. C.; Pirsoul, F.; Toubeau, F.; Van Camp, A. June, 752–753.
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Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. Clareen, S. S.; Marshall, S. R.; Price, K. E.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. July, 904.

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Bond Valence Model as a Tool for Teaching Inorganic Chemistry: The Ionic Model Revisited. Brown, I. D. August, 1070–1075.
Cubic Unit Cell Construction Kit. (CET) Mattson, B. May, 622–623.
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Polymer Nanocomposition Approach to Advanced Materials. (POC) Oriakhi, C. O. September, 1138–1146.
Preparation of Spinel-Type Cathode Materials from Carbonate/Oxalate Powder Mixtures. A Solid-State Experiment for Advanced Undergraduate Inorganic Chemistry Laboratory. (ACL) Zümreoğlu-Karan, B.; Yilmazer, E. September, 1207–1209.
Quantifying Molecular Character. Nelson, P. G. February, 245–248.
Second-Order ^{13}C Diamond Raman Spectrum: An Introduction to Vibrational Spectroscopy of the Solid State. Nissum, M.; Shabanova, E.; Nielsen, O. F. May, 633–637.
Self-Assembly of Microporous Thiogermanate Frameworks. MacLachlan, M. J.; Scott, R. W.; Ozin, G. A.; McIntosh, D. F. May, 630–632.
Solid-State Synthesis of a Thermochromic Compound. Changyun, C.; Zhihua, Z.; Yiming, Z.; Jiangyan, D. September, 1206–1207.
Understanding the Origin of Luminescence in Porous Silicon. An Undergraduate Solid-State Chemistry Experiment. Lasher, D. P.; DeGraff, B. A.; Augustine, B. H. September, 1201–1203.

Solids

Chemical–Medical Mystery: Gold Jewelry and Black Marks on Skin. (AA) Kebbekus, B. B. October, 1298–1299.
Inflection at the Triple Point (re *J. Chem. Educ.* **1999**, *76*, 226). (LTE) Myers, R. T. February, 160.
Inflection at the Triple Point (re *J. Chem. Educ.* **1999**, *76*, 226). (LTE) Hawkes, S. J. February, 160.
Influence of Solidification Techniques on the History of Material Culture. (POC) Shank, N. E. September, 1133–1137.
Melting Point and Molecular Symmetry. Brown, R. J.; Brown, R. F. June, 724–731.
Students as Solids, Liquids, and Gases. (AA) Ramasami, P. April, 485.

Solutions/Solvents

Crystallization from a Supersaturated Solution of Sodium Acetate. (OPD) Ahmad, J. November, 1446.
Determination of K_{sp}, ΔG°, ΔH°, and ΔS° for the Dissolution of Calcium Hydroxide in Water. A General Chemistry Experiment. Euler, W. B.; Kirschenbaum, L. J.; Ruekberg, B. August, 1039–1040.
Distribution Constant of Iodine between Aqueous and Organic Phases. McDowell, S. A. September, 1213–1214.
Dry-Ice Bath Based on Ethylene Glycol Mixtures. (CET) Lee, D. W.; Jensen, C. M. May, 629.
Experimentation and Group Discussion as a Means of Determining Solubility Rules. Stevens, K. E. March, 327–328.
Introductory Laboratory Exercise on Solution Preparation: A Rewarding Experience. Wang, M. R. February, 249–250.
Liquid–Liquid Equilibrium: Verification of the Lever Rule. Jordan, A. D. March, 395.
Microscale Synthesis of Hexaamminechromium(III) Nitrate Using Liquid Ammonia Generated in the Laboratory. (ML) Maslowsky, E. June, 760–761.
Solvent Swelling and Optical Rotation Demonstrated on the Overhead Projector. (OPD) Campbell, D. J.; Rupe, S. B. July, 876–878.
Turbulent Motion in Ethyl Acetate–Water System. (OPD) Ahmad, J. September, 1182–1183.

Spectrometry/Spectroscopy

see
Atomic Spectroscopy
EPR/ESR Spectrometry
Fluorescence Spectrometry
IR Spectroscopy
Lasers/Laser Spectroscopy
Mass Spectrometry
NMR Spectrometry
Raman Spectroscopy
UV–Vis Spectroscopy

Statistical Mechanics

Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999**, *76*, 1393–1394. (LTE) Rioux, F. December, 1559.
Simple Derivation of the Boltzmann Distribution—A Comment (re *J. Chem. Educ.* **1999**, *76*, 1393–1394. (LTE) McDowell, S. A. December, 1559.
Vibrational Spectra and Heat Capacity of Methane, and the Speed of Sound. Tennis, R.; Bailey, R.; Henderson, G. December, 1634–1636.

Statistics/Data Analysis

Analysis of First-Order Kinetics Using Microsoft Excel Solver. (CBB) Denton, P. November, 1524–1525.
Analysis of Vibrational Spectrum of a Linear Molecule. (MCAD) Schwenz, R. W.; Polik, W. F.; Young, S. May, 670.
Analytical Laboratory Experiment in Error Analysis: Repeated Determination of Glucose Using Commercial Glucometers. Edmiston, P. L.; Williams, T. R. March, 377–379.
Calibration of Frequency Data Collection Systems Using Shortwave Radio Signals. (CBB) Estler, R. C. September, 1244–1245.
Classroom Exercise in Sampling Technique. (TD) Ross, M. R. August, 1015–1016.
Error Analysis Using the Variance–Covariance Matrix. (CBB) Salter, C. September, 1239–1243.
How Can an Instructor Best Introduce the Topic of Significant Figures to Students Unfamiliar with the Concept? Pacer, R. A. November, 1435–1438.
In-Class Experiment to Illustrate the Importance of Sampling Techniques and Statistical Analysis of Data to Quantitative Analysis Students. (TD) Hartman, J. R. August, 1017–1018.
Linear Least-Squares Regression. (MCAD) Young, S.; Wierzbicki, A. May, 669.
Non-Linear Least-Squares Regression. (MCAD) Young, S.; Wierzbicki, A. May, 669–670.
Nonlinear Least-Squares Using Microcomputer Data Analysis Programs: KaleidaGraph™ in the Physical Chemistry Teaching Laboratory. (CBB) Tellinghuisen, J. September, 1233–1239.
Pixel Conversion: A Simple Way to Extract Coordinates of Points from a Printed Graph. Aymard, C.; Shirts, R. B. September, 1230–1232.
Spreadsheet Calculation of the Propagation of Experimental Imprecision. (CBB) de Levie, R. April, 534–535.
Spreadsheet Investigation of First-Order Kinetics. (CBB) Lo, G. V. April, 532–533.
Straightforward Method to Determine Equilibrium Constants from Spectrophotometric Data. Keszei, E.; Takács, M. G.; Vizkeleti, B. July, 927–928.
Symbolic Software in the Chemistry Curriculum. (MCAD) Zielinski, T. J. May, 668.

Stereochemistry

Catalytic Asymmetric Epoxidation Using a Fructose-Derived Catalyst. Burke, A.; Dillon, P.; Martin, K.; Hanks, T. W. February, 271–272.

Complete Analysis of a Biologically Active Tetrapeptide: A Project Utilizing Thin-Layer Chromatography and Tandem Quadrupole Mass Spectrometry. (ML) LeFevre, J. W.; Dodsworth, D. W. April, 503–504.
Conformer Hunting: An Open-Ended Computational Chemistry Exercise That Expresses Real-World Complexity and Student Forethought. (CBB) Lipkowitz, K. B.; Robertson, D. February, 206–209.
Coulombic Models in Chemical Bonding (re *J. Chem. Educ.* **1998**, *75*, 923–925 and *J. Chem. Educ.* **1998**, *75*, 907–909). (LTE) Sacks, L. J. April, 445.
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Enantiomeric and Diastereoisomeric Relationships: A Practical Approach. Durieu, V.; Martiat, G.; Vandergeten, M. C.; Pirsoul, F.; Toubeau, F.; Van Camp, A. June, 752–753.
Introducing Chiroscience into the Organic Laboratory Curriculum. (NSF) Lipkowitz, K. B.; Naylor, T.; Anliker, K. S. March, 305–307.
Other Double Helix—The Fascinating Chemistry of Starch. Hancock, R. D.; Tarbet, B. J. August, 988–992.
Periplanar or Coplanar? Kane, S.; Hersh, W. H. October, 1366.
R/S System: A New and Simple Approach to Determining Ligand Priority and a Unified Method for the Assignment and Correlation of Stereogenic Center Configuration in Diverse Stereoformulas. Mandal, D. K. July, 866–869.
Simple Method of Drawing Stereoisomers from Complicated Symmetrical Structures. Haudrechy, A. July, 864–866.
SOS: A Mnemonic for the Stereochemistry of Glucose. Starkey, R. June, 734.

Stoichiometry

Cost of Converting a Gasoline-Powered Vehicle to Propane. A Practical Review Problem for Senior High School or Introductory Chemistry. (2AP) Jansen, M. P. December, 1578–1579.
Drop in the Ocean. (AA) Diemente, D. August, 1010.
Fizzy Drinks: Stoichiometry You Can Taste. (JCE Activity) Rohrig, B. December, 1608.
Paradoxes, Puzzles, and Pitfalls of Incomplete Combustion Demonstrations. Vitz, E. August, 1011–1013.
Preparation and Analysis of Multiple Hydrates of Simple Salts. Schaeffer, R. W.; Chan, B. C.; Marshall, S. R.; Blasiole, B.; Khan, N.; Yoder, K. L.; Trainer, M. E.; Yoder, C. H. April, 509–510.
Relationship between Stoichiometry and Kinetics. Toby, S. February, 188–190.
Synthesis and Analysis of Ammine Complexes of Copper and Silver Sulfate. An Undergraduate Laboratory Project. Clareen, S. S.; Marshall, S. R.; Price, K. E.; Royall, M. B.; Yoder, C. H.; Schaeffer, R. W. July, 904.
Use of Extent of Reaction in Introductory Courses. Canagaratna, S. G. January, 52–54.
When A + B ≠ B + A. (TD) Antony, E.; Mitchell, L.; Nettenstrom, L. September, 1180–1181.

Sulfur

Self-Assembly of Microporous Thiogermanate Frameworks. MacLachlan, M. J.; Scott, R. W.; Ozin, G. A.; McIntosh, D. F. May, 630–632.

Surface Science

Contact Angle Goniometry as a Tool for Surface Tension Measurements of Solids, Using Zisman Plot Method. A Physical Chemistry Experiment. Kabza, K. G.; Gestwicki, J. E.; McGrath, J. L. January, 63–65.
Demonstration of Surface Tension and Contact Angle. (TD) Gesser, H. D. January, 58–59.
Determination of the Real Surface Area of Pt Electrodes by Hydrogen Adsorption Using Cyclic Voltammetry. Doña Rodríguez, J. M.; Herrera-Melián, J. A.; Pérez-Peña, J. September, 1195–1197.
Illustrating the Properties of Magic Sand. (OPD) Goldsmith, R. H. January, 41.
Magic Sand. (JCE Activity) JCE Editorial Staff. January, 40.
Molecular Photography in the Undergraduate Laboratory: Identification of Functional Groups Using Scanning Tunneling Microscopy. Giancarlo, L. C.; Fang, H.; Avila, L.; Fine, L. W.; Flynn, G. W. January, 66–71.
Organic Vapor Sensors for Food Quality Assessment. (POC) Honeybourne, C. L. March, 338–344.
Surface Chemistry Experiment Using an Inexpensive Contact Angle Goniometer. (CET) Dionísio, M.; Sotomayor, J. January, 59–62.
Surface Oxidation Kinetics: A Scanning Tunneling Microscopy Experiment. Poler, J. C. September, 1198–1200.
Turbulent Motion in Ethyl Acetate–Water System. (OPD) Ahmad, J. September, 1182–1183.
Understanding the Origin of Luminescence in Porous Silicon. An Undergraduate Solid-State Chemistry Experiment. Lasher, D. P.; DeGraff, B. A.; Augustine, B. H. September, 1201–1203.

TA Training

Process Workshops—A New Model for Instruction. Hanson, D. M.; Wolfskill, T. January, 120–130.

Teaching/Learning Aids

2YC$_s$—More Than Just an Ice Cream Social. (2YC$_s$) Bolesta, R. November, 1392.
Advanced Chemistry Collection. (JCE Software) November, 1526–1528.
Amino Acids, Aromatic Compounds, and Carboxylic Acids: How Did They Get Their Common Names? Leung, S. H. January, 48–49.
Analytical Chemistry: A Literary Approach. Lucy, C. A. April, 459–470.
Ant Activity Associated with a Chemical Compound. Rigatuso, R.; Bertoluzzo, S. M.; Quattrin, F. E.; Bertoluzzo, M. G. February, 183–185.
Aquarium as a Means for the Interdisciplinary Teaching of Chemistry. (SSC) Calascibetta, F.; Campanella, L.; Favero, G.; Nicoletti, L. October, 1311–1313.
Assigning and Using Oxidation Numbers in Biochemistry Lecture Courses. Halkides, C. J. November, 1428–1432.
Blackboard Experience of a Chemistry Teacher. (2YC$_s$) Cartwright, A. June, 699.
Blackboard Overview by a Technology Coordinator. (2YC$_s$) Rodgers, S. June, 700.
Boerhaave on Fire. Diemente, D. January, 42–47.
Catalytic Oxidation of Ammonia: A Sparkling Experiment. (TD) Volkovich, V. A.; Griffiths, T. R. February, 177.
Chem 13 News: Ways to Teach in the Classroom and Beyond. (ROJ) Thorsen, K. January, 18–20.
Chem 13 News: Ways to Teach in the Classroom and Beyond. (ROJ) Thorsen, K. July, 824.
Chemical Adventures of Sherlock Holmes: The Ghost of Gordon Square. Waddell, T. G.; Rybolt, T. R. April, 471–474.
Chemistry Comes Alive!, Volume 4: Abstract of Special Issue 25 on CD-ROM. (JCE Software) Jacobsen, J. J.; Bain, G. A.; Bruce, K.; Moore, J. W. June, 799–800.
Chemistry Comes Alive!, Volumes 1 and 2. (JCE Software) Jacobsen, J. J.; Moore, J. W. May, 671–672.
Chemistry, Teaching, and WebCT. Cole, R. July, 826–827.
Chemophobia in the College Classroom: Extent, Sources, and Student Characteristics. Eddy, R. M. April, 514–517.
ChemPages Laboratory. (JCE Software) March, J. L.; Moore, J. W.; Jacobsen, J. J. March, 423–424.
Chromatographic Parable. (AA) Parcher, J. F. February, 176.
Classroom Demonstration of the Formation of Aerosols from Biogenic Hydrocarbons. (TD) Andino, J. M.; Wallington, T. J.; Hurley, M. D.; Wayne, R. P. December, 1584–1586.
Classroom Exercise in Sampling Technique. (TD) Ross, M. R. August, 1015–1016.
Classroom Nomenclature Games—BINGO. Crute, T. D. April, 481–482.
Combustion Demonstration Using Updated Flame Tornado. (TD) Senkbeil, E. G. November, 1449–1450.
Comparisons and Demonstrations of Scientific Calculators. (CBB) Kim, M.; Ly, S.; Hong, T. October, 1367–1370.
Complexity of Teaching and Learning Chemical Equilibrium (re *J. Chem. Educ.* **1999**, *76*, 554–558. (LTE) Paiva, J. C.; Gil, V. M. December, 1560.
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Computational Investigations for Undergraduate Organic Chemistry: Modeling a TLC Exercise to Investigate Molecular Structure and Intermolecular Forces. Hessley, R. K. February, 203–205.
Computational Investigations for Undergraduate Organic Chemistry: Modeling Markovnikov and anti-Markovnikov Reactions for the Formation of Alkyl Halides and Alcohols. (TECH) Hessley, R. K. June, 794–797.
Crystals Out of "Thin Air". (CFK) Vollmer, J. J. April, 486–488.
Cubic Unit Cell Construction Kit. (CET) Mattson, B. May, 622–623.
Demonstration of Surface Tension and Contact Angle. (TD) Gesser, H. D. January, 58–59.
Determination of the Active Principle in a Syrup by Spectrophotometry and Principal Component Regression Analysis. An Advanced Undergraduate Experiment Involving Chemometrics. Ribone, M. E.; Pagani, A. P.; Olivieri, A. C.; Goicoechea, H. C. October, 1330–1333.
Developing an Internet-Based Chemistry Class. (2YC$_s$) Patterson, M. J. May, 554–555.
Developing an Intuitive Approach to Moles. (SSC) Wakeley, D. M.; de Grys, H. August, 1007–1009.
Doing Science and Asking Questions: An Interactive Exercise. Middlecamp, C. H.; Nickel, A. L. January, 50–52.
Drawing Lewis Structures from Lewis Symbols: A Direct Electron Pairing Approach. Ahmad, W.; Zakaria, M. B. March, 329–331.
Drop in the Ocean. (AA) Diemente, D. August, 1010.
Early Exposure of Undergraduates to the Chemistry Research Environment: A New Model for Research Universities. (CCD) Lindsay, H. A.; McIntosh, M. C. September, 1174–1175.
Easy-to-Make Ag/AgCl Reference Electrode. (CET) East, G. A.; del Valle, M. A. January, 97.
Electron Densities: Pictorial Analogies for Apparent Ambiguities in Probability Calculations. Lagorio, M. G. November, 1444–1445.
Elementary "Who Am I" Riddles. Denny, R. A.; Lakshmi, R.; Chitra, H.; Devi, N. April, 477–478.
Encouraging Meaningful Quantitative Problem Solving. Cohen, J.; Kennedy-Justice, M.; Pai, S.; Torres, C.; Toomey, R.; DePierro, E.; Garafalo, F. September, 1166–1173.
End of Education As We Know It. (Editorial) Moore, J. W. October, 1255.
Entertaining Chemistry—Two Colorful Reactions. (TD) Elsworth, J. F. April, 484–485.
Enthusiastic Teachers, Vivid Experiments. (Editorial) Moore, J. W. April, 429.
Equilibrium: A Teaching/Learning Activity (re *J. Chem. Educ.* **1998**, *75*, 1176–1177 and *J. Chem. Educ.* **1999**, *76*, 900). (LTE) Silverstein, T. P. November, 1410.
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Especially for High School Teachers. Howell, J. E. June, 679.
Especially for High School Teachers. Howell, J. E. September, 1097.
Every Year Begins a Millennium. 2000 George C. Pimentel Award. (Award Address) Bell, J. A. September, 1098–1104.
Everyday Chemical Reactions: A Writing Assignment to Promote Synthesis of Concepts and Relevance in Chemistry. Parrill, A. L. October, 1303–1305.
Experimental Demonstration of Isomorphism. Kamenîček, J.; Melichárek, M. May, 623–624.
Experimentation and Group Discussion as a Means of Determining Solubility Rules. Stevens, K. E. March, 327–328.
Final Exam Review Activity Based on the Jeopardy Format. Keck, M. V. April, 483.
Fizzy Drinks: Stoichiometry You Can Taste. (JCE Activity) Rohrig, B. December, 1608.
Flat as a Pancake? Exploring Rising in Baked Goods. (JCE Activity) JCE Editorial Staff. October, 1264.
Flow Injection as a Teaching Tool for Gravimetric Analysis. (TICI) Sartini, R. P.; Zagatto, E. A.; Oliveira, C. C. June, 735–737.
Four Interesting Mysteries with Seemingly Conflicting Explanations. DeLorenzo, R. April, 475–476.
Gas Me Up, or, A Baking Powder Diver. (TD) Derr, H. R.; Lewis, T.; Derr, B. J. February, 171–172.
General Chemistry Collection for Students, 4th Edition. (JCE Software) July, 934–936.
Graduate-Level Course for Successful Class Strategies: Preparing Graduate Students for the Next Step. Mazlo, J.; Kelter, P. B. September, 1175–1177.
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632–634). (LTE) Silverstein, T. P. September, 1120.
Graphing Calculator Strategies for Solving Chemical Equilibrium Problems (re *J. Chem. Educ.* **1999**, *76*, 632–634). (LTE) Donato, H. September, 1120–1121.
Hell May Be Hotter Than Heaven after All (re *J. Chem. Educ.* **1999**, *76*, 503). (LTE) Betberan-Santos, M. N. October, 1278.
How Can an Instructor Best Introduce the Topic of Significant Figures to Students Unfamiliar with the Concept? Pacer, R. A. November, 1435–1438.
How Does One Become a Chemist? (FPI) Barón, M. July, 817.
How Does Your Garden Grow? Investigating the "Magic Salt Crystal Garden". (JCE Activity) JCE Editorial Staff. May, 624.
How to Make Learning Chemical Nomenclature Fun, Exciting, and Palatable. ($2YC_4$) Chimeno, J. February, 144–145.
How to Present a Paper or Poster. Huddle, P. A. September, 1152–1153.
Illustrating Thermodynamic Concepts Using a Hero's Engine. (TD) Muiño, P. L.; Hodgson, J. R. May, 615–617.
Illustration of Multistability. Schmitz, G.; Kolar-Anić, L.; Anić, S.; Čupić, Ž. November, 1502–1505.
Improvement of Sugar–Chlorate Rocket Demonstration. (TD) Eliason, R.; Lee, E. J.; Wakefield, D.; Bergren, A. December, 1581–1583.
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INQUAL-S. (JCE Software) Bendall, V. I.; Johnson, S. July, 936.
Integrated Communication Skills Package for Undergraduate Chemists. Kerr, W. J.; Murray, R. E.; Moore, B. D.; Nonhebel, D. C. February, 191–194.
Integrated Lecture–Laboratory Environment for General Chemistry. Bailey, C.; Kingsbury, K.; Kulinowski, K.; Paradis, J.; Schoonover, R. February, 195–199.
Integration of Pre-college Chemistry Education and the GLOBE (Global Learning and Observations to Benefit the Environment) Program. Camacho-Zapata, R.; López-Garriga, J. December, 1586–1589.
Interactive Nano-Visualization of Materials over the Internet. (NSF) Ong, E. W.; Razdan, A.; Garcia, A. A.; Pizziconi, V. B.; Ramakrishna, B. L.; Glaunsinger, W. S. September, 1114–1115.
Interactive Visualization of Infrared Spectral Data: Synergy of Computation, Visualization, and Experiment for Learning Spectroscopy. (CBB) Lahti, P. M.; Motyka, E. J.; Lancashire, R. J. May, 649–653.
Introducing Proper Chemical Hygiene and Safety in the General Chemistry Curriculum. (ST) Miller, G. J.; Heideman, S. A.; Greenbowe, T. J. September, 1185–1187.
Introducing the Uncertainty Principle Using Diffraction of Light Waves. Muiño, P. L. August, 1025–1027.
Introductory Laboratory Exercise on Solution Preparation: A Rewarding Experience. Wang, M. R. February, 249–250.
Ionic Crystals: A Simple and Safe Lecture Demonstration of the Preparation of NaI from Its Elements. (TD) Herman, Z. S. May, 619–621.
It Says in the Books That Ethanol Burns with a Cool Flame. (Accident) Young, J. A. November, 1488.
Journal of Chemical Education on CD-ROM, 2000. (JCE Software) December, 1656.
Keep Going with Cyclooctatetraene! Ault, A. January, 55–57.
Kixium Monolayers: A Simple Alternative to the Bubble Raft Model for Close-Packed Spheres. (TD) Dungey, K. E. May, 618–619.
LeChâtelier's Principle in the Sciences. Thomsen, V. B. February, 173–176.
Lessons for Introductory Chemistry. (JCE Software) Martin, J. S.; Blackburn, E. V. July, 935–936.
Lessons for the 21st Century. 1999 James Flack Norris Award. (Award Address) Lagowski, J. J. July, 818–823.
Let's Talk about It! Using a Graded Discussion Procedure to Make Chemistry Real. (VIEW) Roediger, A. October, 1305–1306.
Life before and after Computers in General Chemistry Laboratory. Jones, R. B. August, 1085–1087.
Linking the Lab Experience with Everyday Life: An Analytical Chemistry Experiment for Agronomy Students. Gimenez, S. M.; Yabe, M. J.; Kondo, N. K.; Mouriño, R. O.; Moura, G. C. February, 181–183.
Lipid Wordsearch. Helser, T. L. April, 479.
Local Atmospheric Chemistry and Ozone Model (LACOM). (CBB) Pirjola, L. December, 1650–1652.
M&M® Superposition Principle. (TD) Miller, J. B. July, 879–881.
Magic Sand. (JCE Activity) JCE Editorial Staff. January, 40.
Measuring Conceptual Change in Organic Chemistry. (CER) Nash, J. G.; Liotta, L. J.; Bravaco, R. J. March, 333–337.
Meeting Report: 16th Biennial Conference on Chemical Education. Bramwell, F. B. November, 1390–1391.
Microcomputer Applications in Biochemistry. (TECH) Tsai, C. S. February, 219–221.
Mission Statement for Chemical Principles Revisited. (CPR) Kilner, C. June, 679.
Molecular Modeling Program for Teaching Structural Biochemistry. (CBB) Dabrowiak, J. C.; Hatala, P. J.; McPike, M. March, 397–400.
More Than Meets the Eye: Nonvisual Observations in Chemistry. (JCE Activity) JCE Editorial Staff. September, 1104.
National Chemistry Week 2000: *JCE* Resources in Food Chemistry. Jacobsen, E. K. October, 1256–1267.
News from Online: Learning Communities. (ROJ) Judd, C. S. July, 808–809.
News from Online: The Power of the Voice. (ROJ) Judd, C. S. March, 299–300.
No, the Molecular Mass of Bromobenzene Is Not 157 amu: An Exercise in Mass Spectrometry and Isotopes for Early General Chemistry. Schildcrout, S. M. November, 1433–1434.
Novel Experiment for Fast and Simple Determination of the Oxygen Content in the Air. (TD) Najdoski, M.; Petruševski, V. M. November, 1447–1448.
NSF Web Site Information on New and Continuing Programs in Science Education. Wink, D. J. April, 443.
NSF Web Site Links on Instructional Technology and Education. Wink, D. J. January, 25.
Old Friends: Slide Rules and Such. (FPI) Williams, K. R. April, 436–437.
Online Resources for High School Teachers—A CLIC Away. (JCE Online) Holmes, J. L. April, 536.
Orbital Plots Using Gnuplot. (CBB) Moore, B. G. June, 785–789.
Organic Chemistry and the Internet: A Web-Based Approach to Homework and Testing Using the WE_LEARN System. (TECH) Penn, J. H.; Nedeff, V. M.; Gozdzik, G. February, 227–231.
Out of "Thin Air": Exploring Phase Changes. (JCE Activity) Vollmer, J. J. April, 488.
Paradoxes, Puzzles, and Pitfalls of Incomplete Combustion Demonstrations. Vitz, E. August, 1011–1013.
Picture Is Worth 1000 Words: The BLT in Teaching Crystal Structure. Lesk, A. M. November, 1423.
Pixel Conversion: A Simple Way to Extract Coordinates of Points from a Printed Graph. Aymard, C.; Shirts, R. B. September, 1230–1232.
Pólya's Isomer Enumeration Method: A Unique Exercise in Group Theory and Combinatorial Analysis for Undergraduates. Pevac, S.; Crundwell, G. October, 1358–1360.
Poster Session in Organic Chemistry That Markedly Enhanced Student Learning. Huddle, P. A. September, 1154–1157.
Potentiometric Determination of CO_2 Concentration in the Gaseous Phase: Applications in Different Laboratory Activities. (SSC) Corrón, E.; Kocmur, S.; Haim, L.; Galagovsky, L. September, 1188–1190.
Practical Procedure for the Solid-Phase Synthesis of Azo Compounds in the Undergraduate Organic Laboratory. Wang, C.; Wang, X.; Wang, Y.; Wang, X.; Wang, H. July, 903–904.
Probability of Locating the Electron in a Hydrogen Atom. (RSA) Mak, T. C.; Li, W. April, 490–491.
Prospectus 2000. (JCE Software) Holmes, J. L.; Gettys, N. S. January, 135–136.
PTRJ. (JCE Software) Grushow, A. November, 1527–1528.
Puzzle Concerning Solution Equilibria. (RSA) Gans, P. April, 489–490.
Radioactivity in the Classroom. Hughes, E. A.; Zalts, A. May, 613–614.
RasMol and Mage in the Undergraduate Biochemistry Curriculum. (TECH) Weiner, S. W.; Cerpovicz, P. F.; Dixon, D. W.; Harden, D. B.; Hobbs, D. S.; Gosnell, D. L. March, 401–496.
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Safety First When Teaching Chemistry to Children. (Accident) Young, J. A. October, 1294.
Science Teacher: Summer 2000 Reading. (ROJ) Long, S. July, 825–826.
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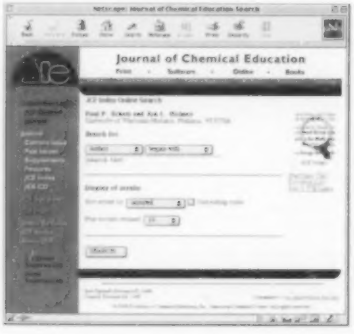

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